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PRODUCTS
CATALOG



**3L ELECTRONIC
CORPORATION**

SURFACE MOUNTING TECHNOLOGY CHIPS & CHOKES



3L ELECTRONIC CORP.

**SMT INDUCTORS
POWER SMT
EMI - EMC
DIP INDUCTORS
RF COILS
TOROIDS**

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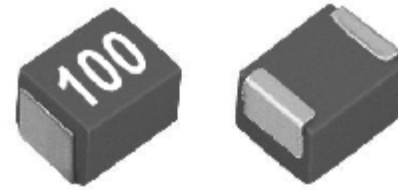
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SMD SERIES

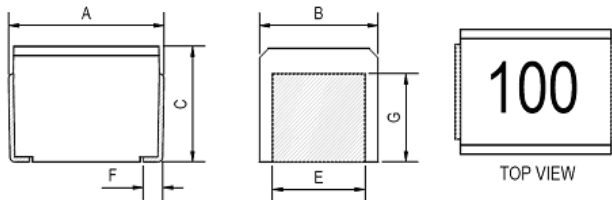
WIRE WOUND SMD CHIP INDUCTORS

Applications :

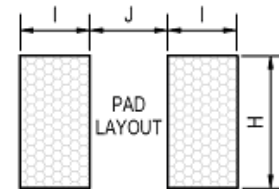
- DSC, DVC , PDA products.
- PCs.hard disk drives and computer peripherals.
- Telecommunications devices.
- TV circuits.
- Test equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	G
SMD2520V(P)	2.5±0.2	2.0±0.2	1.8±0.2	1.4±0.1	0.4±0.1	1.4
SMD3225V(P)	3.2±0.2	2.5±0.2	2.2±0.2	1.9±0.1	0.5±0.1	1.6



Item	H	I	J
SMD2520V(P)	1.5	1.0	1.5
SMD3225V(P)	2.0	1.0	2.0

Features :

- Wire wound SMD inductors .
- Highly accurate dimensions and reliable performance.
- SMD2520V/ 3225V are high Q-characteristic achieved in the miniature winding construction.
- SMD2520VP / 3225VP / 3225VH are low Rdc higher current for the power supply line applications.
- Excellent heat durability that withstands lead-free compatible reflow soldering conditions.

Characteristics :

- Rated Current : It is either the inductance is 20% lower is than its initial value in DC saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temperature : -40°C to 105°C
(Including self-temperature rise).

Product identification :

SMD 3225 V P - 100 K

(1) (2) (3) (4) (5) (6)

(1) Type : **Surface Mount Devices.**

(2) Style : **L=3.2 mm W=2.5mm Ht=2.2mm.**

(3) "V" : **Vertical Structure.**

(4) "P" : For **Power Line.** "H": **High current.**

(5) Inductance : **100** for **10** uH.

(6) Inductance tolerance: **J:±5%; K:±10%; M:±20%.**

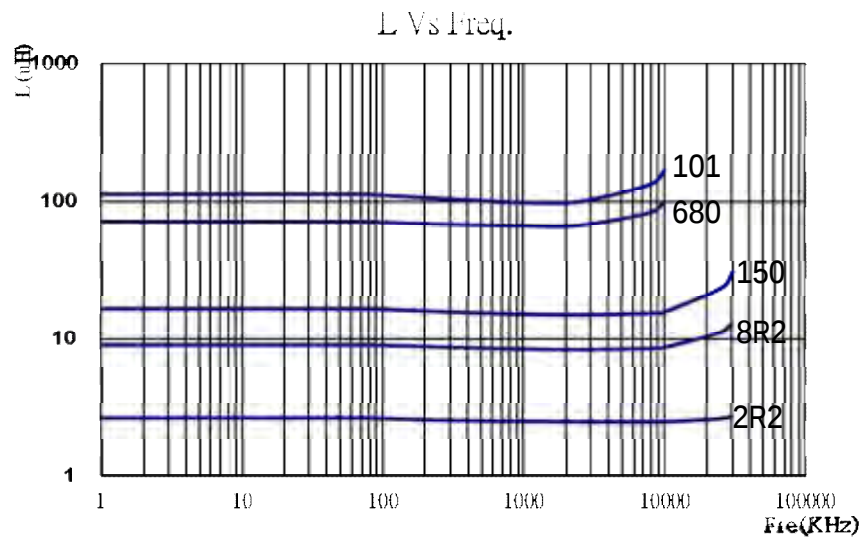
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C .

I SMD 2520V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520V-R010□	0.010	M,K	15	100	2150	0.26	530
SMD2520V-R012□	0.012	M,K	15	100	2050	0.27	500
SMD2520V-R015□	0.015	M,K	15	100	2000	0.29	480
SMD2520V-R018□	0.018	M,K	15	100	1850	0.31	450
SMD2520V-R022□	0.022	M,K	15	100	1650	0.37	420
SMD2520V-R027□	0.027	M,K	15	100	1550	0.40	410
SMD2520V-R033□	0.033	M,K	20	100	1450	0.42	400
SMD2520V-R039□	0.039	M,K	20	100	1350	0.45	380
SMD2520V-R047□	0.047	M,K	20	100	1200	0.50	360
SMD2520V-R056□	0.056	M,K	20	100	1100	0.60	340
SMD2520V-R068□	0.068	M,K	20	100	1050	0.65	320
SMD2520V-R082□	0.082	M,K	20	100	900	0.75	300
SMD2520V-R10□	0.10	M,K	20	100	800	0.80	280
SMD2520V-R12□	0.12	M,K	30	25.2	500	0.22	550
SMD2520V-R15□	0.15	M,K	30	25.2	450	0.25	500
SMD2520V-R18□	0.18	M,K	30	25.2	400	0.29	460
SMD2520V-R22□	0.22	M,K	30	25.2	300	0.30	430
SMD2520V-R27□	0.27	M,K	30	25.2	280	0.33	420
SMD2520V-R33□	0.33	M,K	30	25.2	260	0.39	400
SMD2520V-R39□	0.39	M,K	30	25.2	240	0.40	375
SMD2520V-R47□	0.47	M,K	30	25.2	210	0.44	350
SMD2520V-R56□	0.56	M,K	30	25.2	190	0.49	325
SMD2520V-R68□	0.68	M,K	30	25.2	170	0.52	300
SMD2520V-R82□	0.82	M,K	30	25.2	150	0.61	260
SMD2520V-1R0□	1.0	M,K	30	7.96	150	0.75	245
SMD2520V-1R2□	1.2	M,K	30	7.96	130	0.87	230
SMD2520V-1R5□	1.5	M,K	30	7.96	120	1.00	220
SMD2520V-1R8□	1.8	M,K	30	7.96	110	1.10	210
SMD2520V-2R2□	2.2	M,K	30	7.96	105	1.30	200
SMD2520V-2R7□	2.7	M,K	30	7.96	70	1.40	195
SMD2520V-3R3□	3.3	M,K	30	7.96	55	1.60	185
SMD2520V-3R9□	3.9	K,J	30	7.96	48	1.70	180
SMD2520V-4R7□	4.7	K,J	30	7.96	43	1.90	175
SMD2520V-5R6□	5.6	K,J	30	7.96	42	2.20	170
SMD2520V-6R8□	6.8	K,J	30	7.96	39	2.40	165
SMD2520V-8R2□	8.2	K,J	30	7.96	36	2.60	160
SMD2520V-100□	10	K,J	25	2.52	33	2.20	155
SMD2520V-120□	12	K,J	25	2.52	30	2.50	150
SMD2520V-150□	15	K,J	25	2.52	26	2.80	140
SMD2520V-180□	18	K,J	25	2.52	22	3.20	130
SMD2520V-220□	22	K,J	25	2.52	21	3.60	125
SMD2520V-270□	27	K,J	25	2.52	19	4.30	115
SMD2520V-330□	33	K,J	25	2.52	17	4.70	110
SMD2520V-390□	39	K,J	25	2.52	15	8.10	85
SMD2520V-470□	47	K,J	25	2.52	14	8.80	80
SMD2520V-560□	56	K,J	25	2.52	13	10.0	75
SMD2520V-680□	68	K,J	25	2.52	12	11.5	70
SMD2520V-820□	82	K,J	25	2.52	11	12.5	65
SMD2520V-101□	100	K,J	15	0.796	10	13.0	60

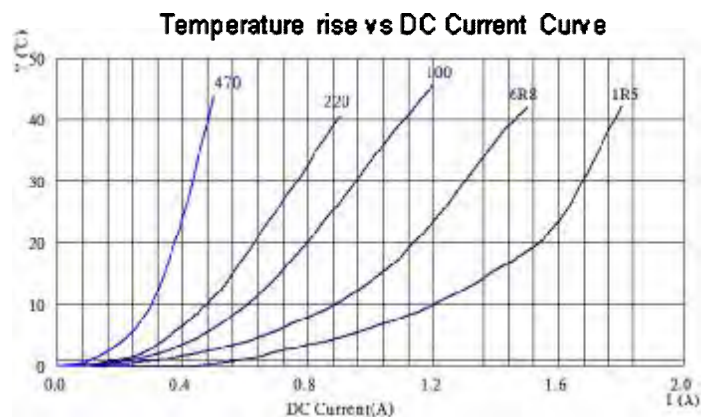
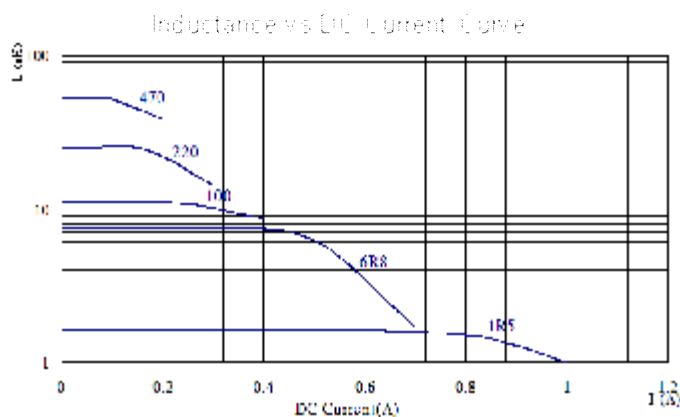
Typical performance curves :



I SMD 2520VP series

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520VP -1R0□	1.0	M,K	20	7.96	130	0.30	480
SMD2520VP -1R5□	1.5	M,K	20	7.96	95	0.38	435
SMD2520VP -2R2□	2.2	M,K	20	7.96	75	0.44	390
SMD2520VP -3R3□	3.3	M,K	20	7.96	60	0.57	340
SMD2520VP -4R7□	4.7	M,K	20	7.96	50	0.68	310
SMD2520VP -6R8□	6.8	K,J	20	7.96	40	0.89	295
SMD2520VP -100□	10	K,J	30	2.52	33	1.1	220
SMD2520VP -150□	15	K,J	30	2.52	28	1.7	180
SMD2520VP -220□	22	K,J	30	2.52	23	2.5	160
SMD2520VP -330□	33	K,J	30	2.52	18	3.8	130
SMD2520VP -470□	47	K,J	30	2.52	15	5.4	100

Typical performance curves :





I SMD 3225V series

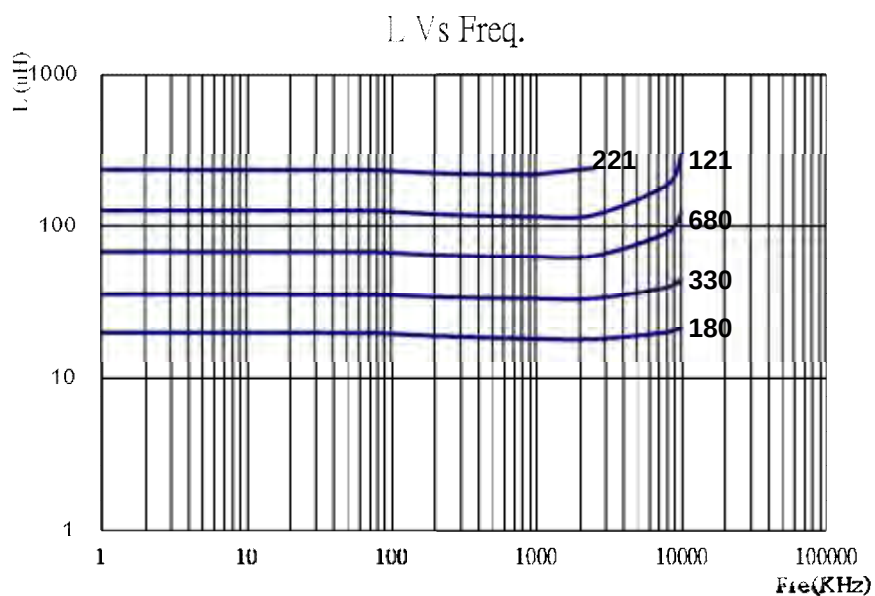
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225V -R010□	0.010	M,K	15	100	2500	0.13	450
SMD3225V -R015□	0.015	M,K	19	100	2100	0.16	450
SMD3225V -R022□	0.022	M,K	23	100	1900	0.20	450
SMD3225V -R033□	0.033	M,K	25	100	1400	0.24	450
SMD3225V -R047□	0.047	M,K	26	100	1200	0.30	450
SMD3225V -R068□	0.068	M,K	27	100	1000	0.36	450
SMD3225V -R10□	0.10	M,K	28	100	700	0.44	450
SMD3225V -R12□	0.12	M,K	30	25.2	500	0.22	450
SMD3225V -R15□	0.15	M,K	30	25.2	450	0.25	450
SMD3225V -R18□	0.18	M,K	30	25.2	400	0.28	450
SMD3225V -R22□	0.22	M,K	30	25.2	320	0.32	450
SMD3225V -R27□	0.27	M,K	30	25.2	320	0.36	450
SMD3225V -R33□	0.33	M,K	30	25.2	300	0.40	450
SMD3225V -R39□	0.39	M,K	30	25.2	180	0.45	450
SMD3225V -R47□	0.47	M,K	30	25.2	180	0.50	450
SMD3225V -R56□	0.56	M,K	30	25.2	180	0.55	450
SMD3225V -R68□	0.68	M,K	30	25.2	160	0.60	450
SMD3225V -R82□	0.82	M,K	30	25.2	140	0.65	450
SMD3225V -1R0□	1.0	M,K	30	7.96	120	0.70	400
SMD3225V -1R2□	1.2	M,K	30	7.96	100	0.75	390
SMD3225V -1R5□	1.5	M,K	30	7.96	85	0.85	370
SMD3225V -1R8□	1.8	M,K	30	7.96	80	0.90	350
SMD3225V -2R2□	2.2	K,J	30	7.96	75	1.0	320
SMD3225V -2R7□	2.7	K,J	30	7.96	70	1.1	290
SMD3225V -3R3□	3.3	K,J	30	7.96	60	1.2	260
SMD3225V -3R9□	3.9	K,J	30	7.96	55	1.3	250
SMD3225V -4R7□	4.7	K,J	30	7.96	50	1.5	220
SMD3225V -5R6□	5.6	K,J	30	7.96	45	1.6	200
SMD3225V -6R8□	6.8	K,J	30	7.96	40	1.8	180
SMD3225V -8R2□	8.2	K,J	30	7.96	35	2.0	170
SMD3225V -100□	10	K,J	30	2.52	30	2.1	150
SMD3225V -120□	12	K,J	30	2.52	20	2.5	140
SMD3225V -150□	15	K,J	30	2.52	20	2.8	130
SMD3225V -180□	18	K,J	30	2.52	20	3.3	120
SMD3225V -220□	22	K,J	30	2.52	20	3.7	110
SMD3225V -270□	27	K,J	30	2.52	20	5.0	80
SMD3225V -330□	33	K,J	30	2.52	17	5.6	70
SMD3225V -390□	39	K,J	30	2.52	16	6.4	65
SMD3225V -470□	47	K,J	30	2.52	15	7.0	60
SMD3225V -560□	56	K,J	30	2.52	13	8.0	55
SMD3225V -680□	68	K,J	30	2.52	12	9.0	50
SMD3225V -820□	82	K,J	30	2.52	11	10	45
SMD3225V -101□	100	K,J	20	0.796	10	10	40
SMD3225V -121□	120	K,J	20	0.796	10	11	70
SMD3225V -151□	150	K,J	20	0.796	8	15	65



I SMD 3225V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225V -181□	180	K,J	20	0.796	7	17	60
SMD3225V -221□	220	K,J	20	0.796	7	21	50

Typical performance curves :

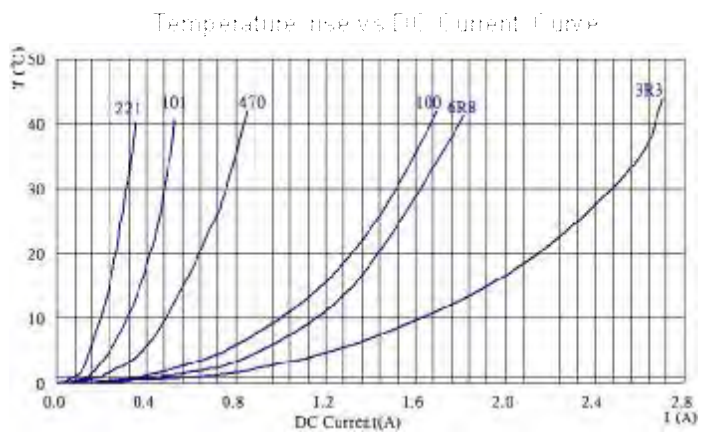
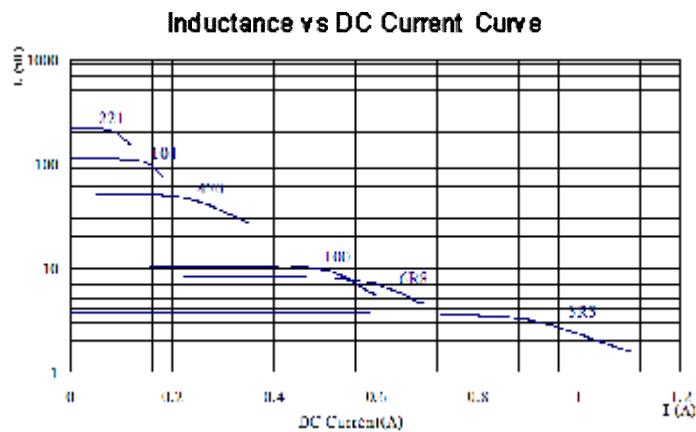




I SMD 3225VP series

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225VP -1R0□	1.0	M,K	10	7.96	100	0.10	1000
SMD3225VP -1R5□	1.5	M,K	10	7.96	80	0.14	830
SMD3225VP -2R2□	2.2	M,K	10	7.96	68	0.17	770
SMD3225VP -3R3□	3.3	M,K	10	7.96	54	0.21	690
SMD3225VP -4R7□	4.7	K,J	15	7.96	46	0.26	620
SMD3225VP -6R8□	6.8	K,J	15	7.96	38	0.35	530
SMD3225VP -100□	10	K,J	15	2.52	30	0.47	450
SMD3225VP -150□	15	K,J	15	2.52	26	0.73	370
SMD3225VP -220□	22	K,J	15	2.52	21	1.00	300
SMD3225VP -330□	33	K,J	15	2.52	17	1.43	240
SMD3225VP -470□	47	K,J	15	2.52	14	2.10	180
SMD3225VP -680□	68	K,J	15	2.52	12	3.60	140
SMD3225VP -101□	100	K,J	15	0.796	10	4.80	120
SMD3225VP -151□	150	K,J	20	0.796	8.0	7.90	100
SMD3225VP -221□	220	K,J	20	0.796	7.0	10.9	80
SMD3225VP -331□	330	K,J	20	0.796	6.0	16.0	70
SMD3225VP -471□	470	K,J	20	0.796	4.0	28.6	50
SMD3225VP -681□	680	K,J	20	0.796	3.0	36.4	40

Typical performance curves :

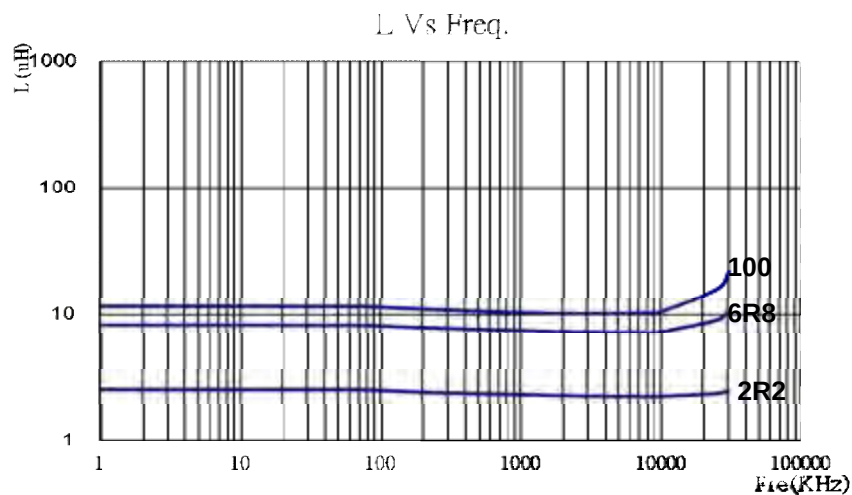




I SMD 3225VH series

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225VH -R15□	0.15	M	10	25.2	400	0.029	2600
SMD3225VH -R22□	0.22	M	10	25.2	350	0.033	2400
SMD3225VH -R27□	0.27	M	10	25.2	300	0.033	2200
SMD3225VH -R33□	0.33	M	10	25.2	250	0.042	2100
SMD3225VH -R47□	0.47	M	10	25.2	200	0.045	2000
SMD3225VH -R68□	0.68	M	10	25.2	150	0.054	1900
SMD3225VH -1R0□	1.0	M	15	7.96	100	0.066	1700
SMD3225VH -1R5□	1.5	M	15	7.96	80	0.114	1400
SMD3225VH 2R2□	2.2	M	15	7.96	68	0.138	1200
SMD3225VH -3R3□	3.3	M	15	7.96	54	0.192	1000
SMD3225VH -4R7□	4.7	M	15	7.96	46	0.24	900
SMD3225VH -6R8□	6.8	M	15	7.96	38	0.348	700
SMD3225VH -100□	10	K	15	2.52	30	0.504	600

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

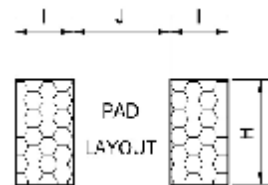
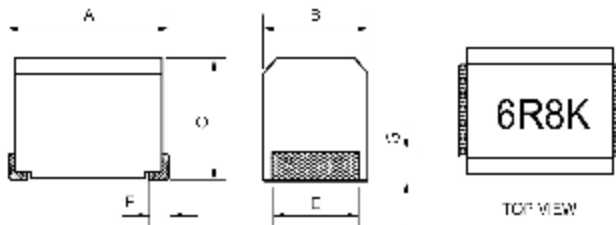
SMD SERIES

WIRE WOUND SMD CHIP INDUCTORS

Applications :

- Communication infrastructures Including xDSL and mobile base stations.
- Onboard automobile equipment Including car audio and ECU systems.
- Audio-visual equipment including TVs and VCRs.
- Other electronic equipment including HDDs and ODDs.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	G	H	I	J
4532V(P)	4.5±0.3	3.2±0.2	3.2±0.2	2.6±0.1	0.6±0.1	0.8	2.8	1.5	3.0
5650V	5.6±0.3	5.0±0.2	4.0±0.2	4.0±0.1	0.7±0.1	1.1	4.5	2.0	4.0
5650VL	5.6±0.3	5.0±0.2	3.0±0.2	4.0±0.1	0.7±0.1	1.1	4.5	2.0	4.0

Features :

- Wire wound SMD inductors .
- Highly accurate dimensions and reliable performance
- SMD4532VP / SMD5650V are low Rdc, higher current for the power supply line applications.
- SMD5650VL is low size type, the specification is similar as the Unshielder power inductors – SMTDR0402 type.
- Good heat durability that withstands lead-free compatible reflow soldering conditions.

Characteristics :

- Rated Current: It is either the inductance is 25% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20$) whichever lower.
- Operating temperature : -40°C to 105°C
(Including self-temperature rise).

Product identification :

SMD 4532 V P - 100 K

(1) (2) (3) (4) (5) (6)

- (1) Type : **Surface Mount Devices.**
- (2) Style : **L=4.5 mm W=3.2mm Ht=3.2mm.**
- (3) "V": Vertical Structure.
- (4) "P": For Power Line. "L" : Low size.
- (5) Inductance : **100** for **10** uH.
- (6) Inductance tolerance: **J** : $\pm 5\%$; **K** : $\pm 10\%$;
M : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C .

I SMD 4532V series

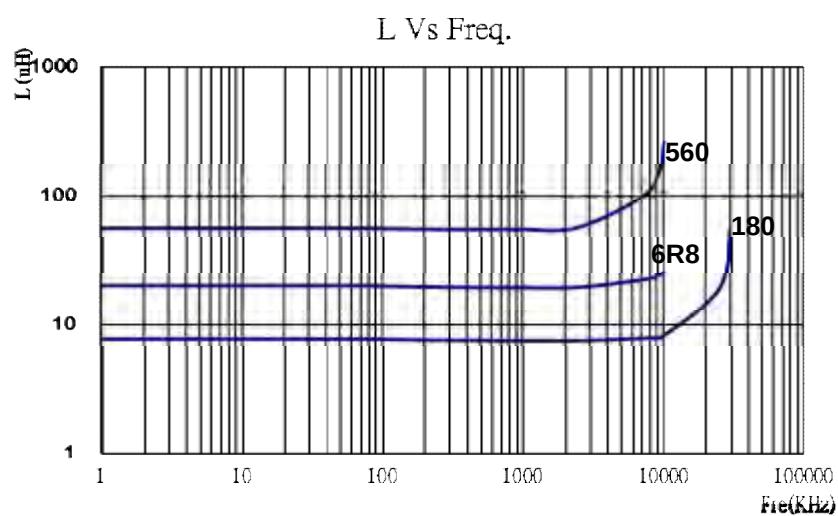
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(μH)	Tolerance					
SMD4532V -R10□	0.10	M,K	35	25.2	300	0.18	800
SMD4532V -R12□	0.12	M,K	35	25.2	280	0.20	770
SMD4532V -R15□	0.15	M,K	35	25.2	250	0.22	730
SMD4532V -R18□	0.18	M,K	35	25.2	220	0.24	700
SMD4532V -R22□	0.22	M,K	40	25.2	200	0.25	665
SMD4532V -R27□	0.27	M,K	40	25.2	180	0.26	635
SMD4532V -R33□	0.33	M,K	40	25.2	165	0.28	605
SMD4532V -R39□	0.39	M,K	40	25.2	150	0.30	575
SMD4532V -R47□	0.47	M,K	40	25.2	145	0.32	545
SMD4532V -R56□	0.56	M,K	40	25.2	140	0.36	520
SMD4532V -R68□	0.68	M,K	40	25.2	135	0.40	500
SMD4532V -R82□	0.82	M,K	40	25.2	130	0.45	475
SMD4532V -1R0□	1.0	M,K	50	7.96	100	0.50	450
SMD4532V -1R2□	1.2	M,K	50	7.96	80	0.55	430
SMD4532V -1R5□	1.5	M,K	50	7.96	70	0.60	410
SMD4532V -1R8□	1.8	M,K	50	7.96	60	0.65	390
SMD4532V -2R2□	2.2	M,K	50	7.96	55	0.70	380
SMD4532V -2R7□	2.7	M,K	50	7.96	50	0.75	370
SMD4532V -3R3□	3.3	M,K	50	7.96	45	0.80	355
SMD4532V -3R9□	3.9	M,K	50	7.96	40	0.90	330
SMD4532V -4R7□	4.7	M,K	50	7.96	35	1.0	315
SMD4532V -5R6□	5.6	K,J	50	7.96	33	1.1	300
SMD4532V -6R8□	6.8	K,J	50	7.96	27	1.2	285
SMD4532V -8R2□	8.2	K,J	50	7.96	23	1.4	270
SMD4532V -100□	10	K,J	50	2.52	20	1.5	250
SMD4532V -120□	12	K,J	50	2.52	18	2.0	225
SMD4532V -150□	15	K,J	50	2.52	17	2.5	200
SMD4532V -180□	18	K,J	50	2.52	15	2.8	190
SMD4532V -220□	22	K,J	50	2.52	13	3.2	180
SMD4532V -270□	27	K,J	50	2.52	12	3.6	170
SMD4532V -330□	33	K,J	50	2.52	11	4.0	160
SMD4532V -390□	39	K,J	50	2.52	10	4.5	150
SMD4532V -470□	47	K,J	50	2.52	10	5.0	140
SMD4532V -560□	56	K,J	50	2.52	9.0	5.5	135
SMD4532V -680□	68	K,J	50	2.52	9.0	6.0	130
SMD4532V -820□	82	K,J	50	2.52	8.0	7.0	120
SMD4532V -101□	100	K,J	40	0.796	8.0	8.0	110
SMD4532V -121□	120	K,J	40	0.796	6.0	8.0	110
SMD4532V -151□	150	K,J	40	0.796	5.0	9.0	105
SMD4532V -181□	180	K,J	40	0.796	5.0	9.5	105
SMD4532V -221□	220	K,J	40	0.796	4.0	10	100
SMD4532V -271□	270	K,J	40	0.796	4.0	12	92
SMD4532V -331□	330	K,J	40	0.796	3.5	14	85
SMD4532V -391□	390	K,J	40	0.796	3.0	16	80



I SMD 4532V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD4532V -471□	470	K,J	40	0.796	3.0	26	62
SMD4532V- 561□	560	K,J	40	0.796	3.0	30	50
SMD4532V -681□	680	K,J	40	0.796	3.0	30	50
SMD4532V -821□	820	K,J	40	0.796	2.5	35	30
SMD4532V -102□	1000	K,J	20	0.252	2.5	40	30

Typical performance curves :

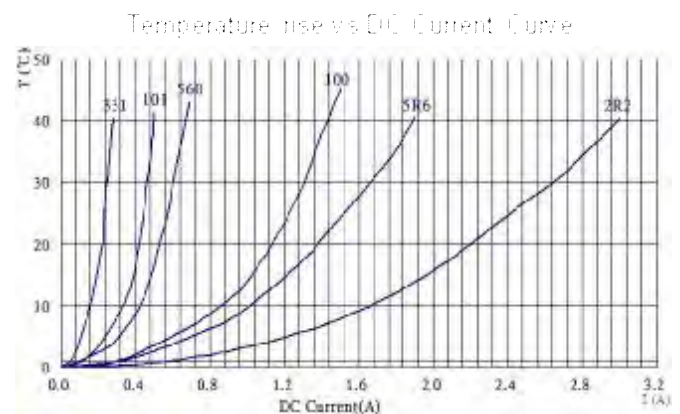
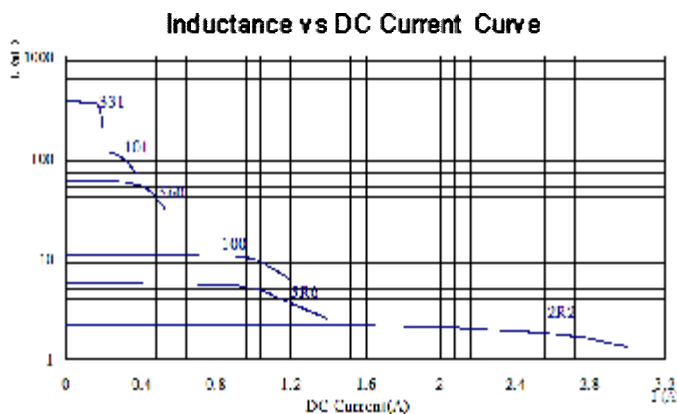




I SMD 4532VP series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD4532VP -1R0□	1.0	M,K	10	7.96	100	0.11	1050
SMD4532VP -1R2□	1.2	M,K	10	7.96	90	0.12	1000
SMD4532VP -1R5□	1.5	M,K	10	7.96	80	0.15	950
SMD4532VP -1R8□	1.8	M,K	10	7.96	70	0.16	900
SMD4532VP -2R2□	2.2	M,K	10	7.96	65	0.18	850
SMD4532VP -2R7□	2.7	M,K	10	7.96	60	0.20	800
SMD4532VP -3R3□	3.3	M,K	10	7.96	45	0.22	750
SMD4532VP -3R9□	3.9	M,K	10	7.96	40	0.24	700
SMD4532VP -4R7□	4.7	K,J	10	7.96	35	0.27	650
SMD4532VP -5R6□	5.6	K,J	10	7.96	30	0.30	650
SMD4532VP -6R8□	6.8	K,J	10	7.96	28	0.35	600
SMD4532VP -8R2□	8.2	K,J	10	7.96	25	0.4	600
SMD4532VP -100□	10	K,J	10	2.52	22	0.5	550
SMD4532VP -120□	12	K,J	10	2.52	21	0.6	500
SMD4532VP -150□	15	K,J	10	2.52	20	0.7	450
SMD4532VP -180□	18	K,J	10	2.52	19	0.8	400
SMD4532VP -220□	22	K,J	10	2.52	18	0.9	370
SMD4532VP -270□	27	K,J	10	2.52	16	1.2	330
SMD4532VP -330□	33	K,J	10	2.52	14	1.4	300
SMD4532VP -390□	39	K,J	10	2.52	12	1.6	280
SMD4532VP -470□	47	K,J	10	2.52	11.5	1.9	260
SMD4532VP -560□	56	K,J	10	2.52	11.0	2.2	240
SMD4532VP -680□	68	K,J	10	2.52	10.0	2.6	220
SMD4532VP -820□	82	K,J	10	2.52	9.0	3.5	200
SMD4532VP -101□	100	K,J	20	0.796	8.0	4.0	180
SMD4532VP -121□	120	K,J	20	0.796	7.5	4.5	160
SMD4532VP -151□	150	K,J	20	0.796	7.0	6.5	140
SMD4532VP -181□	180	K,J	20	0.796	6.5	7.5	120
SMD4532VP -221□	220	K,J	20	0.796	5.5	9.0	120
SMD4532VP -271□	270	K,J	20	0.796	5.0	11	100
SMD4532VP -331□	330	K,J	20	0.796	4.0	13	90

Typical performance curves :

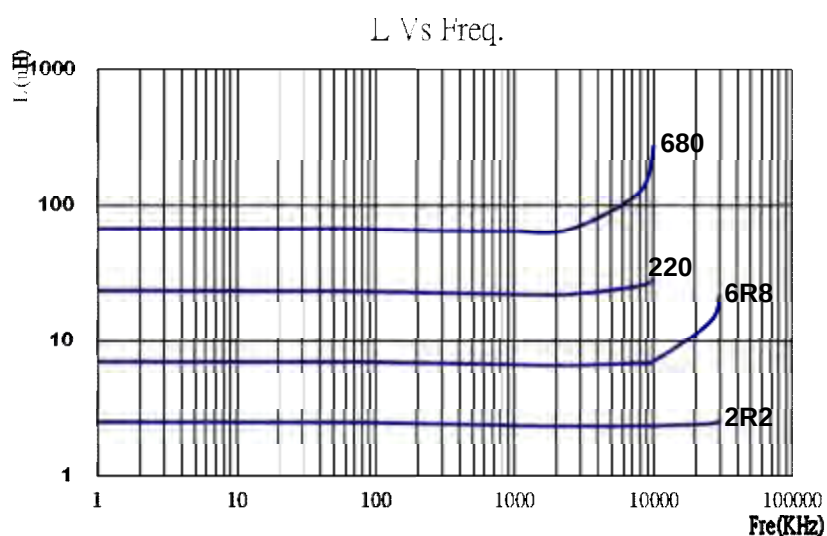


I SMD 5650V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(μH)	Tolerance					
SMD5650V-1R0□	1.0	M,K	10	7.96	95	0.030	1800
SMD5650V-1R2□	1.2	M,K	10	7.96	70	0.035	1700
SMD5650V-1R5□	1.5	M,K	10	7.96	55	0.04	1600
SMD5650V-1R8□	1.8	M,K	10	7.96	47	0.05	1400
SMD5650V-2R2□	2.2	M,K	10	7.96	42	0.06	1300
SMD5650V-2R7□	2.7	M,K	10	7.96	37	0.07	1200
SMD5650V-3R3□	3.3	M,K	10	7.96	34	0.08	1120
SMD5650V-3R9□	3.9	M,K	10	7.96	32	0.09	1050
SMD5650V-4R7□	4.7	M,K	10	7.96	29	0.11	950
SMD5650V-5R6□	5.6	M,K	10	7.96	26	0.13	880
SMD5650V-6R8□	6.8	M,K	10	7.96	24	0.15	810
SMD5650V-8R2□	8.2	M,K	10	7.96	22	0.18	750
SMD5650V-100□	10	M,K	10	2.52	19	0.21	690
SMD5650V-120□	12	M,K	10	2.52	17	0.25	630
SMD5650V-150□	15	M,K	10	2.52	16	0.30	580
SMD5650V-180□	18	M,K	10	2.52	14	0.36	530
SMD5650V-220□	22	K,J	10	2.52	13	0.43	480
SMD5650V-270□	27	K,J	10	2.52	11.5	0.52	440
SMD5650V-330□	33	K,J	10	2.52	10.5	0.62	400
SMD5650V-390□	39	K,J	10	2.52	9.5	0.72	370
SMD5650V-470□	47	K,J	10	2.52	8.5	0.85	340
SMD5650V-560□	56	K,J	10	2.52	7.8	1.0	310
SMD5650V-680□	68	K,J	10	2.52	7.0	1.2	290
SMD5650V-820□	82	K,J	10	2.52	6.4	1.4	270
SMD5650V-101□	100	K,J	20	0.796	6.0	1.6	250
SMD5650V-121□	120	K,J	20	0.796	5.4	1.9	230
SMD5650V-151□	150	K,J	20	0.796	4.8	2.2	210
SMD5650V-181□	180	K,J	20	0.796	4.4	2.8	190
SMD5650V-221□	220	K,J	20	0.796	3.9	3.4	170
SMD5650V-271□	270	K,J	20	0.796	3.6	4.2	155
SMD5650V-331□	330	K,J	20	0.796	3.2	4.9	140
SMD5650V-391□	390	K,J	20	0.796	2.9	5.8	130
SMD5650V-471□	470	K,J	20	0.796	2.6	7.0	120
SMD5650V-561□	560	K,J	20	0.796	2.4	8.5	110
SMD5650V-681□	680	K,J	20	0.796	2.2	10	100
SMD5650V-821□	820	K,J	20	0.796	2.0	13	90
SMD5650V-102□	1000	K,J	20	0.252	1.8	15	85
SMD5650V-122□	1200	K,J	20	0.252	1.5	17	75
SMD5650V-152□	1500	K,J	20	0.252	1.4	20	70
SMD5650V-182□	1800	K,J	20	0.252	1.3	30	60
SMD5650V-222□	2200	K,J	20	0.252	1.2	35	55
SMD5650V-272□	2700	K,J	20	0.252	1.1	55	45
SMD5650V-332□	3300	K,J	20	0.252	1.0	60	40
SMD5650V-392□	3900	K,J	20	0.252	1.0	70	38
SMD5650V-472□	4700	K,J	20	0.252	0.9	78	36

**I SMD 5650V series**

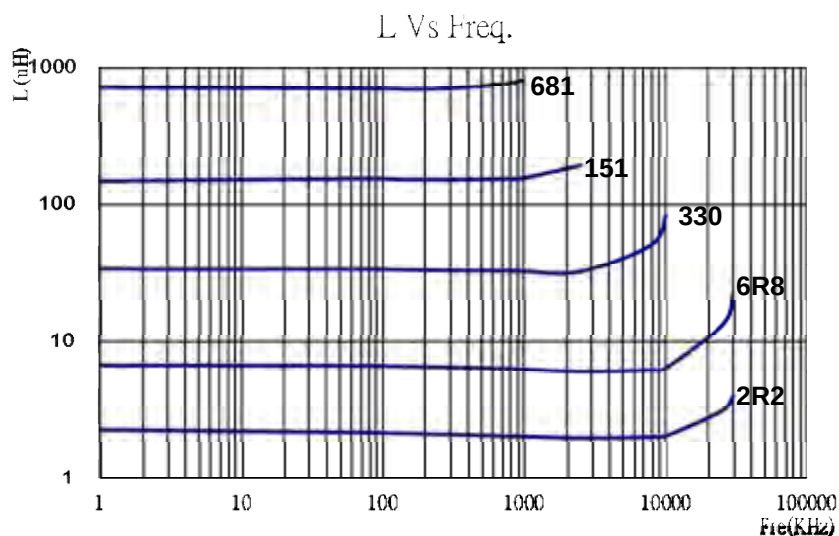
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(μ H)	Tolerance					
SMD5650V-562□	5600	K,J	20	0.252	0.8	85	33
SMD5650V-682□	6800	K,J	20	0.252	0.7	110	30
SMD5650V-822□	8200	K,J	20	0.252	0.6	125	28
SMD5650V-103□	10000	K,J	15	0.0796	0.5	150	25

Typical performance curves :

I SMD 5650VL series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD5650VL-1R0□	1.0	M,K	10	0.10	130	0.05	2900
SMD5650VL-1R5□	1.5	M,K	10	0.10	115	0.05	2600
SMD5650VL-2R2□	2.2	M,K	10	0.10	90	0.07	2300
SMD5650VL-3R3□	3.3	M,K	10	0.10	70	0.08	2000
SMD5650VL-4R7□	4.7	M,K	10	0.10	50	0.09	1500
SMD5650VL-6R8□	6.8	M,K	10	0.100	45	0.13	1200
SMD5650VL-100□	10	M,K	10	0.10	35	0.16	1100
SMD5650VL-150□	15	M,K	10	0.10	30	0.23	900
SMD5650VL-220□	22	M,K	10	0.10	20	0.37	700
SMD5650VL-330□	33	M,K	10	0.10	15	0.51	580
SMD5650VL-470□	47	M,K	10	0.10	14	0.64	500
SMD5650VL-680□	68	M,K	10	0.10	11	0.86	400
SMD5650VL-101□	100	K,J	10	0.10	9.0	1.27	300
SMD5650VL-151□	150	K,J	10	0.10	6.0	2.00	250
SMD5650VL-221□	220	K,J	10	0.10	5.5	3.11	200
SMD5650VL-331□	330	K,J	10	0.10	5.0	3.80	160
SMD5650VL-471□	470	K,J	10	0.10	4.0	6.20	150
SMD5650VL-681□	680	K,J	10	0.10	3.0	9.20	120
SMD5650VL-102□	1000	K,J	10	0.10	2.0	13.8	70

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SMDMS SERIES

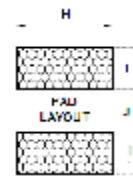
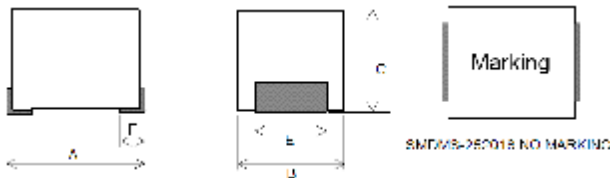
MAGNETIC SHIELDED WIRE WOUND SMD CHIP
INDUCTORS

Applications :

- TVs, VCRs and digital cameras.
- Xdsl and mobile base stations.
- Car audio and ECU systems.
- HDDs and ODDs.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F
252018	2.5±0.2	2.0±0.2	1.8±0.2	0.4Ref.	1.4±0.1
322522	3.2±0.2	2.5±0.2	2.2±0.2	0.4Ref.	1.9±0.1

Item	H	I	J
252018	1.5	1.0	1.5
322522	2.0	1.2	2.0

Features :

- Magnetic shielded designed which is recommended for power supply line applications.
- The product has good heat durability that withstands Lead-free compatible reflow soldering conditions.
- Lead-free material is used for the plating on the terminal.
- This product conforms to the standards that are slated to be introduced under the ROHS Directive.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temp: -40°C to 105°C .

Product Identification :

SMD MS - 252018 - 1R0 M
(1) (2) (3) (4) (5)

- (1) Type : Surface Mount Devices.
- (2) MS : Magnetic Shielded.
- (3) Dimension.
- (4) Inductance : 1R0 for 1.0uH.
- (5) Inductance tolerance : K:±10%; M:±20%.

Test equipments :

- L&Q: Agilent 4285A Precision LCR meter with Agilent 16034E test fixture.
- DCR: Milli-ohm meter.
- SRF: Agilent E4991A RF Impedance analyzer.
- Electrical specifications at 25°C .

I SMDMS-252018 series

Part No.	Inductance L (uH)	Tolerance (±%)	Q Ref.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) ±20%	Rated Current (mA) Max
SMDMS-252018-1R0□	1.0	20	5	7.96	100	0.07	455
SMDMS-252018-1R5□	1.5	20	5	7.96	80	0.09	350
SMDMS-252018-2R2□	2.2	20	5	7.96	70	0.10	315
SMDMS-252018-3R3□	3.3	20	5	7.96	55	0.20	280
SMDMS-252018-4R7□	4.7	20	5	7.96	45	0.24	210
SMDMS-252018-6R8□	6.8	20	5	7.96	38	0.29	175
SMDMS-252018-100□	10	10 ,20	10	2.52	32	0.36	155
SMDMS-252018-150□	15	10 ,20	10	2.52	28	0.75	130
SMDMS-252018-220□	22	10 ,20	10	2.52	16	1.00	105
SMDMS-252018-330□	33	10 ,20	10	2.52	14	1.40	85
SMDMS-252018-470□	47	10 ,20	10	2.52	11	1.70	60
SMDMS-252018-680□	68	10 ,20	10	2.52	10	3.30	50
SMDMS-252018-101□	100	10 ,20	10	0.796	8	4.00	40

I SMDMS-322522 series

Part No.	Inductance L (uH)	Tolerance (±%)	Q Ref.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) ±20%	Rated Current (mA) Max
SMDMS-322522-1R0□	1.0	20	5	7.96	100	0.06	750
SMDMS-322522-1R5□	1.5	20	5	7.96	80	0.07	600
SMDMS-322522-2R2□	2.2	20	5	7.96	68	0.09	500
SMDMS-322522-3R3□	3.3	20	5	7.96	54	0.11	420
SMDMS-322522-4R7□	4.7	20	5	7.96	46	0.13	360
SMDMS-322522-6R8□	6.8	20	5	7.96	38	0.17	260
SMDMS-322522-100□	10	10 ,20	10	2.52	30	0.20	250
SMDMS-322522-150□	15	10 ,20	10	2.52	26	0.30	140
SMDMS-322522-220□	22	10 ,20	10	2.52	21	0.40	120
SMDMS-322522-330□	33	10 ,20	10	2.52	17	0.65	95
SMDMS-322522-470□	47	10 ,20	10	2.52	14	0.85	90
SMDMS-322522-680□	68	10 ,20	10	2.52	12	1.30	70
SMDMS-322522-101□	100	10 ,20	25	0.796	10	2.20	55
SMDMS-322522-151□	150	10 ,20	25	0.796	8	2.90	50
SMDMS-322522-221□	220	10 ,20	25	0.796	7	5.10	40
SMDMS-322522-331□	330	10 ,20	25	0.796	5	6.80	35
SMDMS-322522-471□	470	10 ,20	25	0.796	4	14.5	30
SMDMS-322522-681□	680	10 ,20	25	0.796	3	18.5	25
SMDMS-322522-102□	1000	10 ,20	25	0.252	2.4	22.5	20

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTBW104/105 SERIES

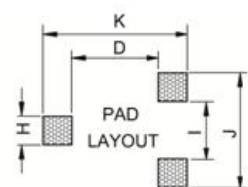
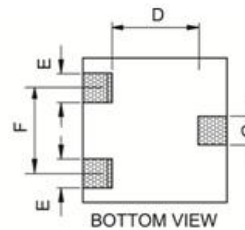
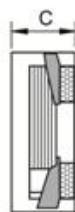
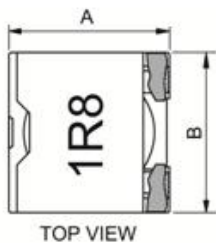
SMT FLAT WIRE COLLS

Applications :

- Notebook /Desktop/server applications.
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
SMTBW104	10.4	10.4	4.5	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0
SMTBW105	10.4	10.4	5.6	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 20%("N" is 30%) lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature: -40°C to 105°C

Product identification :

SMT BW105 S - 1R8 M

(1) (2) (3) (4)

(1)Type :Surface Mountable Type .

(2)Style :Flat wire with **ER** Core and **S** or **H** is used for a hight current type instead of BW105.

(3)Inductance : **1R8** for **1.8** uH.

(4)Inductance tolerance : "**N**": $\pm 30\%$ "**M**": $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .

I SMTBW104/105 series

Part No.	Induc L (μ H)	DC Resistance (m Ω)Max.					Rated Current (A)Max.				
		104L	104S	105L	105S	105H	104L	104S	105L	105S	105H
R15	0.15					1.7					19.0
R22	0.22		2.2		1.7			18.0		19.0	
R30	0.30					2.4					17.7
R36	0.36	2.2		1.7			18.0		19.0		
R45	0.45		3.7		2.4			13.4		17.7	
R50	0.50					4.1					13.0
R80	0.80	3.7	5.9	2.4	4.1	5.3	13.4	10.2	16.0	13.0	11.2
1R2	1.2					7.5					9.0
1R3	1.3		11.8		5.3			7.3		11.2	
1R4	1.4	5.9		4.1			10.2		12.0		
1R5	1.5					10.5					7.8
1R8	1.8		18.6		7.5			5.4		9.0	
2R0	2.0					12.4					7.4
2R2	2.2	11.8		5.3			7.3		9.6		
2R5	2.5		21.8		10.5			5.0		7.8	
3R0	3.0					23.8					4.9
3R2	3.2	18.6		7.5	12.4		5.4		7.8	7.4	
4R0	4.0				18.0					6.2	
4R3	4.3	21.8		10.5			5.0		6.8		
5R0	5.0				23.8					4.9	
5R7	5.7			12.4					5.8		
7R2	7.2			18.0					5.3		
8R8	8.8			23.8					4.8		

• Note:

• Measuring Frequency :
100KHz , 1V

• Tolerance of Inductance :

SMTBW104L	0.36 μ H $\pm$ 30%(N) ;	0.80 μ H-4.3 μ H $\pm$ 20%(M).
SMTBW104S	0.22 μ H $\pm$ 30%(N) ;	0.45 μ H-2.5 μ H $\pm$ 20%(M).
SMTBW105L	0.36 μ H $\pm$ 30%(N) ;	0.80 μ H-8.8 μ H $\pm$ 20%(M).
SMTBW105S	0.22 μ H $\pm$ 30%(N) ;	0.45 μ H-5.0 μ H $\pm$ 20%(M).
SMTBW105H	0.15 μ H , 0.3 $\pm$ 30%(N) ;	0.50 μ H-3.0 μ H $\pm$ 20%(M).

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTBW125/134 SERIES

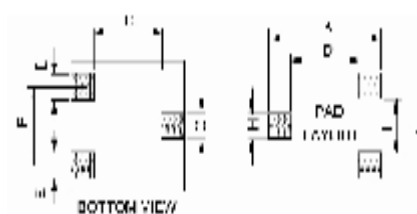
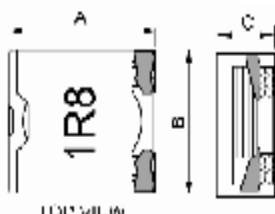
SMT FLAT WIRE COLLS

Applications :

- Notebook /Desktop/server applications.
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc.



Shape and Dimensions :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
SMTBW125	12.9	12.9	5.7	8.2	2.6	7.0	2.5	3.0	4.0	10.0	13.5
SMTBW134	13.9	13.9	5.0	9.6	2.6	7.2	2.5	2.6	4.4	10.0	15.0

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 20% ("N" is 30%) lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature: -40°C to 105°C .

Product Identification :

SMT BW125 U - 1R8 M

(1) (2) (3) (4)

(1)Type : Surface Mountable Type .

(2)Style : Flat wire with **ER** Core and **H** or **U** is used or a big current type instead of **BW125**.

(3)Inductance : **1R8** for **1.8** uH.

(4)Inductance tolerance : "N": $\pm 30\%$ "M": $\pm 20\%$;

Test equipments :

- Inductance measured at 0A_{dc} on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



I SMTBW125/134 series

Part No.	Inductance L (μH)	DC Resistance (mΩ)Max.					Rate Current (A)Max.				
		125	125H	125U	134	134H	125	125H	125U	134	134H
R30	0.30					1.90					18.5
R35	0.35			1.8					18.5		
R40	0.40				1.9					18.5	
R66	0.66					2.5					17.0
R80	0.80			2.5					16.5		
R90	0.90				2.5					17.0	
1R0	1.0		2.5					16.5			
1R2	1.2					3.7					15.0
1R4	1.4			3.4					15.5		
1R5	1.5	2.5					14.0				
1R6	1.6				3.7					15.0	
1R8	1.8		3.4			6.6		15.3			10.5
2R2	2.2			5.4					12.5		
2R5	2.5	3.4			6.6		10.0			10.5	
2R7	2.7					10.8					8.0
2R8	2.8		5.4					12.3			
3R2	3.2			8.0					9.9		
3R6	3.6				10.8	12.0				8.0	7.5
4R0	4.0	8.0	8.0				8.3	9.9			
4R3	4.3			11.4					8.2		
4R8	4.8				12.0	16.3				7.5	7.0
5R6	5.6		11.4	13.5				8.2	7.6		
6R0	6.0	8.0				18.4	6.7				6.5
6R4	6.4				16.3					7.0	
7R2	7.2		13.5					7.6			
8R0	8.0				18.4					6.5	
8R2	8.2	11.4					5.8				
100	10.0	13.5					5.0				

• Note

• Measuring Frequency : 100KHZ , 100mV

• Tolerance of Inductance :

SMTBW125 ± 20%(M); SMTBW125(H) ±20% (M)

SMTBW125U 0.35uH,0.8uH ±30% (N) ; 1.4uH-5.6uH± 20%(M)

SMTBW134 0.4uH±30% (N); 0.9uH-8.0uH± 20%(M)

SMTBW134H 0.3uH,0.66uH ±30% (N); 1.2uH-6.0uH± 20%(M)

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



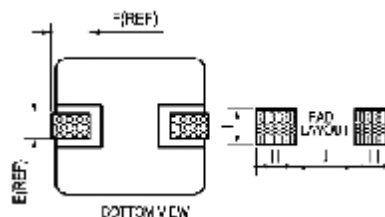
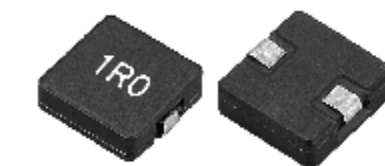
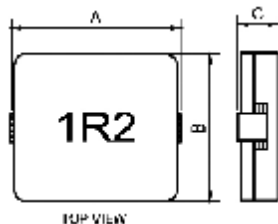
SMTER63/64/65 SERIES

SMT FLAT WIRE COLLS

Applications :

- Computer and portable power devices.
- Energy storage applications.
- DC/DC converters.
- Input – output filter application.

Shape and Dimensions (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
ER63	7.9	7.0	3.0
ER64	7.9	7.0	4.0
ER65	7.9	7.0	5.0

Item	E	F	H	I	J
ER63	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER64	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER65	2.5±0.3	1.6±0.2	2.5	4.0	3.0

Features :

- Super flux core materials.
- High current.
- Low DCR
- Frequency range up to 2MHz.

Product identification :

SMT ER65 - 1R0 M

(1) (2) (3) (4)

(1)Type : Surface Mountable Type .

(2)Style : Flat wire with **ER** core.

(3)Inductance : **1R0** for **1.0uH**.

(4)Inductance tolerance : "**M**": ±20%.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% (or 15%) lower than its initial value.(Ta=20°C).
- Temperature Rise Current(I rms): The current when temperature of coil increase up to max.
ΔT=40°C.(Ta=20°C).
- Operating temperature : -40°C to 125°C.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C

Part No.	L (uH) ±20%	DCR (mΩ) Max	I sat L Drop 10% (A) Typ.	I sat L Drop 15% (A) Typ.	I rms (A) Max	H (mm) Max
SMTER63 - R10M	0.10	1.2	22.0	32.0	19.0	3.0
SMTER64 - R22M	0.22	1.8	16.0	24.0	15.0	4.0
SMTER64 - R47M	0.47	2.5	11.0	16.0	13.0	4.0
SMTER65 - R68M	0.68	3.2	10.0	14.0	12.0	5.0
SMTER65 - 1R0M	1.00	4.0	8.5	11.0	11.0	5.0
SMTER65 - 1R5M	1.50	4.5	7.0	9.0	10.0	5.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SMTSDR SERIES

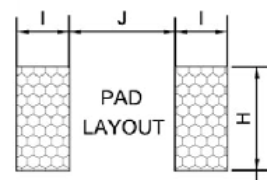
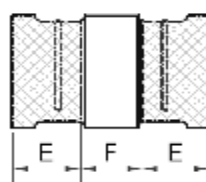
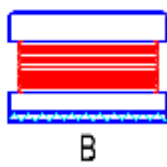
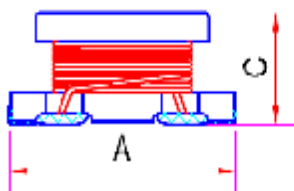
MINIATURE SMD CHIP CHOKE COILS

Applications :

- Pagers, Cordless phone.
- High Freq. Communication Products.
- Personal computers.
- Disk Drives and computer peripherals.
- DC power supply circuits.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E Min.	F Min.	H	I	J
SMTSDR322515	3.2±0.3	2.5±0.2	1.55±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR321618C	3.2±0.3	1.6±0.2	1.8±0.3	0.7	0.7	1.5	1.5	1.0
SMTSDR322520(C)	3.2±0.3	2.5±0.2	2.0±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR453226(C)	4.5±0.3	3.2±0.2	2.6±0.3	1.0	1.0	3.0	2.0	1.2
SMTSDR575047C	5.7±0.3	5.0±0.3	4.7±0.3	1.3	1.7	5.0	2.0	2.0

Features :

- These miniature chip inductors wound on a special ferrite core.
- SMTSDR322520 / 453226 / 322515 are high Q value at high frequencies and low DC resistance.
- SMTSDR321618C / 322520C / 453226C / 565047C are low DC resistance, high current capacity, and high impedance characteristics. They are excellent for use as choke coil in DC power supply circuits.

Characteristics :

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temp. : -30°C to 105°C .

Product identification :

SMT SDR 453226 C - 101 K
 (1) (2) (3) (4) (5)

- (1) Type : Surface Mounting Type.
- (2) Style : **SDR** Type core, $L=4.5\text{mm}$ $W=3.2$ $H_t=2.6$.
- (3) **C**: for Choke use, No **C**: for general use.
- (4) Inductance : **101** for **100uH**.
- (5) Inductance tolerance : **J** : $\pm 5\%$; **K** : $\pm 10\%$; **M** : $\pm 20\%$.

Test equipments :

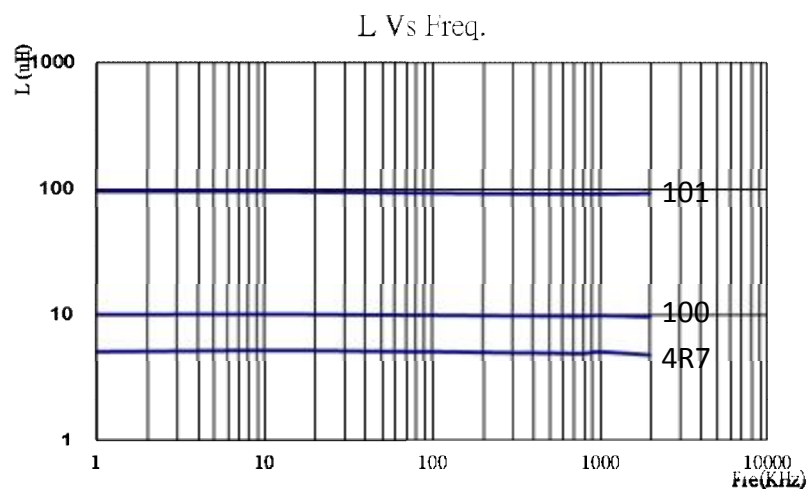
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .



I SMTSDR 322515 series

Part No.	Inductance L (μ H)	TEST Freq. (0.1V)	DCR (Ω) Max.	Rated Current (mA) Max.	SRF (MHz) Min.
SMTSDR322515-1R0M	1.0	1MHz	0.078	1000	100
SMTSDR322515-2R2M	2.2	1MHz	0.126	790	64
SMTSDR322515-4R7M	4.7	1MHz	0.195	650	43
SMTSDR322515-100K	10	1MHz	0.42	400	26
SMTSDR322515-150K	15	1MHz	0.75	300	22
SMTSDR322515-220K	22	1MHz	0.92	250	19
SMTSDR322515-330K	33	1MHz	1.40	200	17
SMTSDR322515-470K	47	1MHz	2.75	170	13
SMTSDR322515-680K	68	1MHz	3.60	130	9
SMTSDR322515-101K	100	1MHz	4.50	100	8

Typical performance curves :

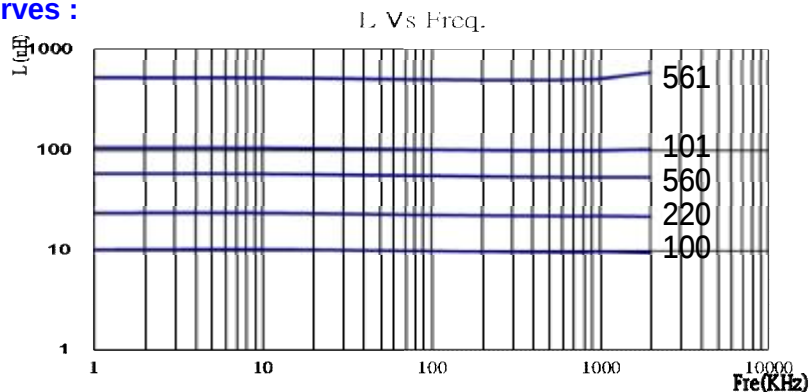




I SMTSDR 322520 series

Part No.	Inductance (μH)			Quality Factor		DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
	Nominal Value	Tolerance (±%)	Test Freq.	Spec. Min.	Test Freq.			
SMTSDR322520 -1R0□	1.0	M	1MHz	20	1MHz	0.50	100	445
SMTSDR322520 -1R2□	1.2	M	1MHz	20	1MHz	0.60	100	425
SMTSDR322520 -1R5□	1.5	M,K	1MHz	20	1MHz	0.60	75	400
SMTSDR322520 -1R8□	1.8	M,K	1MHz	20	1MHz	0.70	60	390
SMTSDR322520 -2R2□	2.2	M,K	1MHz	20	1MHz	0.80	50	370
SMTSDR322520 -2R7□	2.7	M,K	1MHz	20	1MHz	0.90	43	320
SMTSDR322520 -3R3□	3.3	M,K	1MHz	20	1MHz	1.0	38	300
SMTSDR322520 -3R9□	3.9	M,K	1MHz	20	1MHz	1.1	35	290
SMTSDR322520 -4R7□	4.7	M,K	1MHz	20	1MHz	1.2	31	270
SMTSDR322520 -5R6□	5.6	M,K	1MHz	20	1MHz	1.3	28	250
SMTSDR322520 -6R8□	6.8	M,K	1MHz	20	1MHz	1.5	25	240
SMTSDR322520 -8R2□	8.2	M,K	1MHz	20	1MHz	1.6	23	225
SMTSDR322520 -100□	10	K,J	1MHz	35	1MHz	1.8	20	190
SMTSDR322520 -120□	12	K,J	1MHz	35	1MHz	2.0	18	180
SMTSDR322520 -150□	15	K,J	1MHz	35	1MHz	2.2	16	170
SMTSDR322520 -180□	18	K,J	1MHz	35	1MHz	2.5	15	165
SMTSDR322520 -220□	22	K,J	1MHz	35	1MHz	2.8	14	150
SMTSDR322520 -270□	27	K,J	1MHz	35	1MHz	3.1	13	125
SMTSDR322520 -330□	33	K,J	1MHz	40	1MHz	3.5	12	115
SMTSDR322520 -390□	39	K,J	1MHz	40	1MHz	3.9	11	110
SMTSDR322520 -470□	47	K,J	1MHz	40	1MHz	4.3	11	100
SMTSDR322520 -560□	56	K,J	1MHz	40	1MHz	4.9	10.0	85
SMTSDR322520 -680□	68	K,J	1MHz	40	1MHz	5.5	9.0	80
SMTSDR322520 -820□	82	K,J	1MHz	40	1MHz	6.2	8.5	70
SMTSDR322520 -101□	100	K,J	1MHz	40	796kHz	7.0	8.0	80
SMTSDR322520 -121□	120	K,J	1MHz	40	796kHz	8.0	7.5	75
SMTSDR322520 -151□	150	K,J	1MHz	40	796kHz	9.3	7.0	70
SMTSDR322520 -181□	180	K,J	1MHz	40	796kHz	10.2	6.0	65
SMTSDR322520 -221□	220	K,J	1MHz	40	796kHz	11.8	5.5	65
SMTSDR322520 -271□	270	K,J	1MHz	40	796kHz	12.5	5.0	65
SMTSDR322520 -331□	330	K,J	1MHz	40	796kHz	13.0	5.0	65
SMTSDR322520 -391□	390	K,J	1MHz	50	796kHz	22.0	5.0	50
SMTSDR322520 -471□	470	K,J	1kHz	50	796kHz	25.0	5.0	45
SMTSDR322520 -561□	560	K,J	1kHz	50	796kHz	28.0	5.0 (REF.)	40

Typical performance curves :



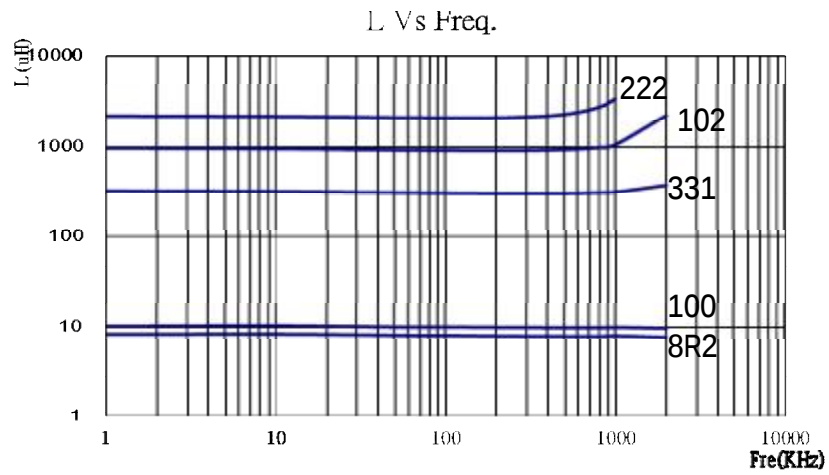


I SMTSDR 453226 series

Part No.	Inductance(uH)			Quality Factor		DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
	Nominal Value	Tolerance (±%)	Test Freq.	Spec. Min.	Test Freq.			
SMTSDR453226 -1R0□	1.0	M	1MHz	20	1MHz	0.20	120	500
SMTSDR453226 -1R2□	1.2	M	1MHz	20	1MHz	0.20	100	500
SMTSDR453226 -1R5□	1.5	M	1MHz	20	1MHz	0.30	85	500
SMTSDR453226 -1R8□	1.8	M	1MHz	20	1MHz	0.30	75	500
SMTSDR453226 -2R2□	2.2	M	1MHz	20	1MHz	0.30	62	500
SMTSDR453226 -2R7□	2.7	M	1MHz	20	1MHz	0.32	53	500
SMTSDR453226 -3R3□	3.3	M	1MHz	20	1MHz	0.35	47	500
SMTSDR453226 -3R9□	3.9	M	1MHz	20	1MHz	0.38	41	500
SMTSDR453226 -4R7□	4.7	M,K	1MHz	30	1MHz	0.40	38	500
SMTSDR453226 -5R6□	5.6	M,K	1MHz	30	1MHz	0.47	33	500
SMTSDR453226 -6R8□	6.8	M,K	1MHz	30	1MHz	0.50	31	450
SMTSDR453226 -8R2□	8.2	M,K	1MHz	30	1MHz	0.56	27	450
SMTSDR453226 -100□	10	K,J	1MHz	35	1MHz	0.56	23	400
SMTSDR453226 -120□	12	K,J	1MHz	35	1MHz	0.62	21	380
SMTSDR453226 -150□	15	K,J	1MHz	35	1MHz	0.73	19	360
SMTSDR453226 -180□	18	K,J	1MHz	35	1MHz	0.82	17	340
SMTSDR453226 -220□	22	K,J	1MHz	35	1MHz	0.94	15	320
SMTSDR453226 -270□	27	K,J	1MHz	35	1MHz	1.1	14	300
SMTSDR453226 -330□	33	K,J	1MHz	35	1MHz	1.2	12	270
SMTSDR453226 -390□	39	K,J	1MHz	35	1MHz	1.4	11	240
SMTSDR453226 -470□	47	K,J	1MHz	35	1MHz	1.5	10	220
SMTSDR453226 -560□	56	K,J	1MHz	35	1MHz	1.7	9.3	200
SMTSDR453226 -680□	68	K,J	1MHz	35	1MHz	1.9	8.4	180
SMTSDR453226 -820□	82	K,J	1MHz	35	1MHz	2.2	7.5	170
SMTSDR453226 -101□	100	K,J	1MHz	40	796kHz	2.5	6.8	160
SMTSDR453226 -121□	120	K,J	1MHz	40	796kHz	3.0	6.2	150
SMTSDR453226 -151□	150	K,J	1MHz	40	796kHz	3.7	5.5	130
SMTSDR453226 -181□	180	K,J	1MHz	40	796kHz	4.5	5.0	120
SMTSDR453226 -221□	220	K,J	1MHz	40	796kHz	5.4	4.5	110
SMTSDR453226 -271□	270	K,J	1MHz	40	796kHz	6.8	4.0	100
SMTSDR453226 -331□	330	K,J	1MHz	40	796kHz	8.2	3.6	95
SMTSDR453226 -391□	390	K,J	1MHz	40	796kHz	9.7	3.3	90
SMTSDR453226 -471□	470	K,J	1kHz	40	796kHz	11.8	3.0	80
SMTSDR453226 -561□	560	K,J	1kHz	40	796kHz	14.5	2.7	70
SMTSDR453226 -681□	680	K,J	1kHz	40	796kHz	17.0	2.5	65
SMTSDR453226 -821□	820	K,J	1kHz	40	796kHz	20.5	2.2	60
SMTSDR453226 -102□	1000	K,J	1kHz	40	252kHz	25.0	2.0	55
SMTSDR453226 -122□	1200	K,J	1kHz	40	252kHz	30.0	1.8	50
SMTSDR453226 -152□	1500	K,J	1kHz	40	252kHz	37.0	1.6	45
SMTSDR453226 -182□	1800	K,J	1kHz	40	252kHz	45.0	1.5	35
SMTSDR453226 -222□	2200	K,J	1kHz	40	252kHz	50.0	1.3	30



Typical performance curves :





I SMTSDR321618C series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
SMTSDR321618C -R22□	0.22	M	1MHz	0.140	250	850
SMTSDR321618C -R47□	0.47	M	1MHz	0.210	180	700
SMTSDR321618C -1R0□	1.0	M	1MHz	0.364	100	510
SMTSDR321618C -2R2□	2.2	M	1MHz	0.533	50	430
SMTSDR321618C -4R7□	4.7	M,K	1MHz	0.845	31	340
SMTSDR321618C -100□	10	K,J	1MHz	1.690	20	230
SMTSDR321618C -220□	22	K,J	1MHz	3.900	14	160
SMTSDR321618C -470□	47	K,J	1MHz	10.40	10	100
SMTSDR321618C -101□	100	K,J	1MHz	15.60	7	80
SMTSDR322520C -1R0□	1.0	M	1MHz	0.078	100	1000
SMTSDR322520C -2R2□	2.2	M	1MHz	0.126	64	790
SMTSDR322520C -4R7□	4.7	M	1MHz	0.195	43	450
SMTSDR322520C -100□	10	M	1MHz	0.572	26	300
SMTSDR322520C -220□	22	M,K	1MHz	0.923	19	250
SMTSDR322520C -470□	47	M,K	1MHz	1.69	12	170
SMTSDR322520C -101□	100	K,J	1MHz	4.55	8	100
SMTSDR322520C -221□	220	K,J	1MHz	10.92	5.5	70
SMTSDR322520C -331□	330	K,J	1MHz	13.00	4.5	60
SMTSDR322520C -391□	390	K,J	1MHz	22.10	4	60
SMTSDR322520C -471□	470	K,J	1MHz	24.70	3.7	60
SMTSDR322520C -561□	560	K,J	1MHz	28.60	3.4	60
SMTSDR453226C -1R0□	1.0	M	1MHz	0.08	100	1080
SMTSDR453226C -1R5□	1.5	M	1MHz	0.09	85	1000
SMTSDR453226C -2R2□	2.2	M	1MHz	0.11	60	900
SMTSDR453226C -3R3□	3.3	M	1MHz	0.13	47	800
SMTSDR453226C -4R7□	4.7	M,K	1MHz	0.15	35	750
SMTSDR453226C -6R8□	6.8	M,K	1MHz	0.20	30	720
SMTSDR453226C -100□	10	K,J	1MHz	0.24	23	650
SMTSDR453226C -150□	15	K,J	1MHz	0.32	20	570
SMTSDR453226C -220□	22	K,J	1MHz	0.60	15	420
SMTSDR453226C -330□	33	K,J	1MHz	1.0	12	310
SMTSDR453226C -470□	47	K,J	1MHz	1.1	10	280
SMTSDR453226C -680□	68	K,J	1MHz	1.7	8.4	220
SMTSDR453226C -101□	100	K,J	1MHz	2.2	6.8	190
SMTSDR453226C -151□	150	K,J	1MHz	3.5	5.5	130
SMTSDR453226C -221□	220	K,J	1MHz	4.0	4.5	110
SMTSDR453226C -331□	330	K,J	1MHz	6.8	3.6	100
SMTSDR453226C -471□	470	K,J	1MHz	8.5	3.0	90



I SMTSDR575047C series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
SMTSDR575047C -R12 $\square$	0.12	M	1MHz	0.0098	450	6000
SMTSDR575047C -R27 $\square$	0.27	M	1MHz	0.0140	300	5300
SMTSDR575047C -R47 $\square$	0.47	M	1MHz	0.0182	200	4800
SMTSDR575047C -1R0 $\square$	1.0	M	1MHz	0.0270	150	4000
SMTSDR575047C -1R5 $\square$	1.5	M	1MHz	0.0310	110	3700
SMTSDR575047C -2R2 $\square$	2.2	M	1MHz	0.0410	80	3200
SMTSDR575047C -3R3 $\square$	3.3	M	1MHz	0.0500	40	2900
SMTSDR575047C -4R7 $\square$	4.7	M	1MHz	0.0574	30	2700
SMTSDR575047C -6R8 $\square$	6.8	M	1MHz	0.1040	25	2000
SMTSDR575047C -100 $\square$	10	M,K	1MHz	0.1300	20	1700
SMTSDR575047C -150 $\square$	15	M,K	1MHz	0.210	17	1400
SMTSDR575047C -220 $\square$	22	M,K	1MHz	0.266	15	1200
SMTSDR575047C -330 $\square$	33	M,K	1MHz	0.448	12	900
SMTSDR575047C -470 $\square$	47	M,K	1MHz	0.560	10(REF.)	800
SMTSDR575047C -680 $\square$	68	M,K	1MHz	0.938	7.6	640
SMTSDR575047C -101 $\square$	100	M,K	100kHz	1.204	6.5(REF.)	560
SMTSDR575047C -151 $\square$	150	M,K	100kHz	2.660	5.0(REF.)	420
SMTSDR575047C -221 $\square$	220	M,K	100kHz	3.360	4.0	320
SMTSDR575047C -331 $\square$	330	M,K	100kHz	6.160	3.1	270
SMTSDR575047C -471 $\square$	470	M,K	100kHz	7.560	2.4	240
SMTSDR575047C -681 $\square$	680	M,K	100kHz	11.34	1.9	190
SMTSDR575047C -102 $\square$	1000	M,K	10kHz	14.42	1.7	150
SMTSDR575047C -222 $\square$	2200	M,K	10kHz	30.10	1.2	100
SMTSDR575047C -472 $\square$	4700	M,K	10kHz	61.04	0.8	70
SMTSDR575047C -103 $\square$	10000	M,K	10kHz	140.0	0.5	50

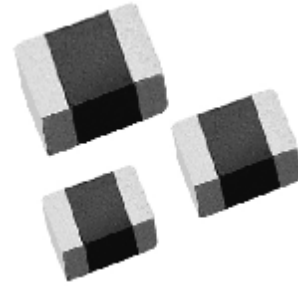
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SMW LB SERIES

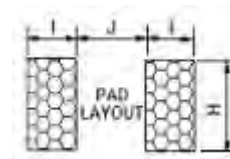
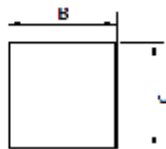
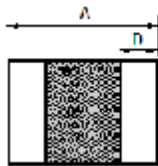
SMD WOUND CHIP INDUCTORS

Applications :

- DSC,DVC,HDD,LCD, portable telephones.
- Game equipments, various audio-visual equipments .
- various communication equipments, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D
1608	1.6±0.1	0.80±0.1	0.80±0.1	0.35±0.2
2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.2
2016	2.0±0.2	1.60±0.2	1.60±0.2	0.5±0.2
2518	2.5±0.2	1.80±0.2	1.80±0.2	0.5±0.2

Item	H	I	J
SMW-1608	1.00	0.55	0.70
SMW-2012	1.45	0.70	0.80
SMW-2016	1.80	0.70	0.80
SMW-2518	2.00	0.80	0.80

Features :

- SMW-LB series is wound chip inductors that cover customer's wide range module design by Wide-line-up shape, standard, low DCR and high electric current series.

Product Identification :

SMW - 2012 LB S R - 100 K

(1) (2) (3) (4) (5) (6) (7)

- (1) Series : SMD Type Wound chip inductor.
- (2) Dimension : 2012 is size.
- (3) Design code: Wound chip inductor.
- (4) Type : S:Standard; P:High Current; D:Low DCR.
- (5) Special Code : No code standard products; R: Low DCR type.
- (6) Inductance : 100 for 10 uH.
- (7) Inductance tolerance : K:±10%; M:±20%.

Characteristics :

- Rated Current: It is either the inductance is 10% Lower than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temp: -25°C to 105°C .

Test equipments :

- L: Agilent 4285A Precision LCR meter with Agilent 16034E Test Fixture.
- DCR: Milli-ohm meter.
- SRF: Agilent E4991A RF Impedance analyzer.
- Electrical specifications at 25°C .



I SMW-1608LBS series

Part No.	Inductance L (uH)	Tolerance (±%)	Test . Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) ±30%	Rated Current (mA) Max.
SMW-1608LBS-1R0□	1.0	20	7.96	100	0.17	160
SMW-1608LBS-2R2□	2.2	20	7.96	80	0.33	115
SMW-1608LBS-4R7□	4.7	20	7.96	45	0.55	70
SMW-1608LBS-8R2□	8.2	20	2.52	32	0.70	60
SMW-1608LBS-100□	10	20	2.52	32	0.70	60

I SMW-2012LBS series

SMW-2012LBS-1R0□	1.0	20	7.96	100	0.15	405
SMW-2012LBS-2R2□	2.2	20	7.96	80	0.23	260
SMW-2012LBS-3R3□	3.3	20	7.96	55	0.30	235
SMW-2012LBS-4R7□	4.7	20	7.96	45	0.40	190
SMW-2012LBS-6R8□	6.8	20	7.96	38	0.47	135
SMW-2012LBS-100□	10	10 , 20	2.52	32	0.70	120
SMW-2012LBSR-100□	10	10 , 20	2.52	32	0.50	120
SMW-2012LBS-150□	15	10 , 20	2.52	28	1.30	100
SMW-2012LBS-220□	22	10 , 20	2.52	16	1.70	80
SMW-2012LBS-470□	47	10 , 20	2.52	11	3.70	60
SMW-2012LBS-680□	68	10 , 20	2.52	10	6.00	50
SMW-2012LBS-101□	100	10 , 20	0.796	8	7.00	45

I SMW-2016LBS series

SMW-2016LBS-1R0□	1.0	20	7.96	100	0.09	490
SMW-2016LBS-1R5□	1.5	20	7.96	80	0.11	380
SMW-2016LBS-2R2□	2.2	20	7.96	70	0.13	375
SMW-2016LBS-3R3□	3.3	20	7.96	55	0.20	285
SMW-2016LBS-4R7□	4.7	20	7.96	45	0.25	225
SMW-2016LBS-6R8□	6.8	20	7.96	38	0.35	200
SMW-2016LBS-100□	10	10 , 20	2.52	32	0.50	155
SMW-2016LBS-150□	15	10 , 20	2.52	28	0.70	130
SMW-2016LBS-220□	22	10 , 20	2.52	16	1.00	105
SMW-2016LBS-330□	33	10 , 20	2.52	14	1.70	85
SMW-2016LBS-470□	47	10 , 20	2.52	11	2.40	70
SMW-2016LBS-680□	68	10 , 20	2.52	10	3.00	55
SMW-2016LBS-101□	100	10 , 20	0.796	8	4.50	40

I SMW-2518LBS series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) ±30%	Rated Current (mA) Max.
SMW-2518LBS-1R0□	1.0	20	7.96	100	0.06	665
SMW-2518LBS-1R5□	1.5	20	7.96	80	0.07	405
SMW-2518LBS-2R2□	2.2	20	7.96	68	0.09	340
SMW-2518LBS-3R3□	3.3	20	7.96	54	0.11	280
SMW-2518LBS-4R7□	4.7	20	7.96	46	0.13	240
SMW-2518LBSR-4R7□	4.7	20	7.96	46	0.10	235
SMW-2518LBS-6R8□	6.8	20	7.96	38	0.15	195
SMW-2518LBS-100□	10	10 , 20	2.52	30	0.25	165
SMW-2518LBS-150□	15	10 , 20	2.52	23	0.32	145
SMW-2518LBS-220□	22	10 , 20	2.52	19	0.50	115
SMW-2518LBS-330□	33	10 , 20	2.52	15	0.70	95
SMW-2518LBS-470□	47	10 , 20	2.52	12	0.95	85
SMW-2518LBS-680□	68	10 , 20	2.52	9.5	1.50	70
SMW-2518LBS-101□	100	10 , 20	0.796	9	2.10	60
SMW-2518LBS-151□	150	10 , 20	0.796	7	3.20	45
SMW-2518LBS-221□	220	10 , 20	0.796	5.5	4.50	40
SMW-2518LBS-331□	330	10 , 20	0.796	4.5	7.00	60
SMW-2518LBS-471□	470	10 , 20	0.796	3.5	10.0	25
SMW-2518LBS-681□	680	10 , 20	0.796	3	17.0	20
SMW-2518LBS-102□	1000	10 , 20	0.252	2.4	24.0	15

I SMW-2012LBP series

SMW-2012LBP-1R0□	1.0	20	7.96	100	0.19	620
SMW-2012LBP-2R2□	2.2	20	7.96	70	0.33	430
SMW-2012LBP-4R7□	4.7	20	7.96	45	0.50	295
SMW-2012LBP-100□	10	10 , 20	2.52	40	1.20	200
SMW-2012LBP-220□	22	10 , 20	2.52	16	3.70	130
SMW-2012LBP-470□	47	10 , 20	2.52	11	5.80	90

I SMW-2016LBP series

SMW-2016LBP-1R0□	1.0	20	7.96	100	0.10	690
SMW-2016LBP-1R5□	1.5	20	7.96	80	0.15	600
SMW-2016LBP-2R2□	2.2	20	7.96	70	0.20	520
SMW-2016LBP-3R3□	3.3	20	7.96	55	0.27	410
SMW-2016LBP-4R7□	4.7	20	7.96	45	0.37	355
SMW-2016LBP-6R8□	6.8	20	7.96	38	0.59	290
SMW-2016LBP-100□	10	10 , 20	2.52	32	0.82	245
SMW-2016LBP-150□	15	10 , 20	2.52	28	1.20	200
SMW-2016LBP-220□	22	10 , 20	2.52	16	1.80	165
SMW-2016LBP-330□	33	10 , 20	2.52	14	2.80	135
SMW-2016LBP-470□	47	10 , 20	2.52	11	4.30	110
SMW-2016LBP-680□	68	10 , 20	2.52	10	7.00	95
SMW-2016LBP-101□	100	10 , 20	0.796	8	8.00	75

I SMW-2518LBP series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) ±30%	Rated Current (mA) Max.
SMW-2518LBP-1R0□	1.0	20	7.96	100	0.08	775
SMW-2518LBP-1R5□	1.5	20	7.96	80	0.11	730
SMW-2518LBP-2R2□	2.2	20	7.96	68	0.13	630
SMW-2518LBP-3R3□	3.3	20	7.96	54	0.16	560
SMW-2518LBP-4R7□	4.7	20	7.96	41	0.20	510
SMW-2518LBP-6R8□	6.8	20	7.96	38	0.30	420
SMW-2518LBP-100□	10	10 , 20	2.52	30	0.36	375
SMW-2518LBP-150□	15	10 , 20	2.52	23	0.65	285
SMW-2518LBP-220□	22	10 , 20	2.52	19	0.77	250
SMW-2518LBP-330□	33	10 , 20	2.52	15	1.50	185
SMW-2518LBP-470□	47	10 , 20	2.52	12	1.90	165
SMW-2518LBP-680□	68	10 , 20	2.52	9.5	2.80	140
SMW-2518LBP-101□	100	10 , 20	0.796	9	3.70	125
SMW-2518LBP-151□	150	10 , 20	0.796	7	6.10	95
SMW-2518LBP-221□	220	10 , 20	0.796	5.5	8.40	80
SMW-2518LBP-331□	330	10 , 20	0.796	4.5	12.3	65
SMW-2518LBP-471□	470	10 , 20	0.796	3.5	22.0	50
SMW-2518LBP-681□	680	10 , 20	0.796	3	28.0	35

I SMW-2012LBD series

SMW-2012LBD-1R0□	1.0	20	7.96	100	0.07	400
SMW-2012LBD-2R2□	2.2	20	7.96	80	0.13	260
SMW-2012LBD-4R7□	4.7	20	7.96	45	0.24	200
SMW-2012LBD-100□	10	10 , 20	2.52	32	0.36	150
SMW-2012LBD-220□	22	10 , 20	2.52	16	1.00	100
SMW-2012LBD-470□	47	10 , 20	2.52	11	1.70	75
SMW-2012LBS-101□	100	10 , 20	0.796	8	4.00	50

● SMW-2518LBD series

SMW-2518LBD-1R0□	1.0	20	7.96	100	0.045	960
SMW-2518LBD-2R2□	2.2	20	7.96	68	0.07	480
SMW-2518LBD-4R7□	4.7	20	7.96	45	0.10	345
SMW-2518LBD-100□	10	10 , 20	2.52	30	0.19	235
SMW-2518LBD-220□	22	10 , 20	2.52	19	0.44	175
SMW-2518LBD-470□	47	10 , 20	2.52	11	0.84	120
SMW-2518LBD-101□	100	10 , 20	0.796	9	1.89	80

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDE SERIES

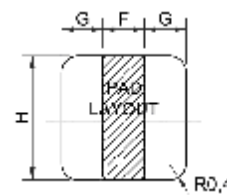
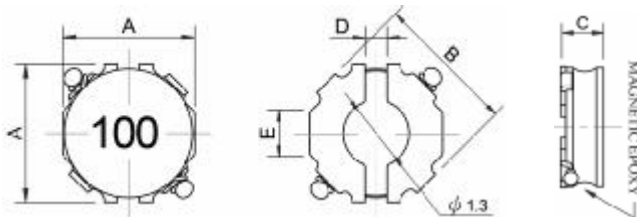
SHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BDE2D10	3.0±0.2	3.2	1.0	0.5	1.0
BDE2D12	3.0±0.2	3.2	1.2	0.5	1.0
BDE2D15	3.0±0.2	3.2	1.5	0.5	1.0

Item	F	G	H
BDE2D10	1.0	1.0	3.0
BDE2D12	1.0	1.0	3.0
BDE2D15	1.0	1.0	3.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic Resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature : -40°C to 105°C.

Product identification :

BDE2D10 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with **DR** core and magnetic Epoxy resin. **2D** is 3.0mm square and **10** is about 1.0mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **N**: ± 30% ; **M**: ± 20%.

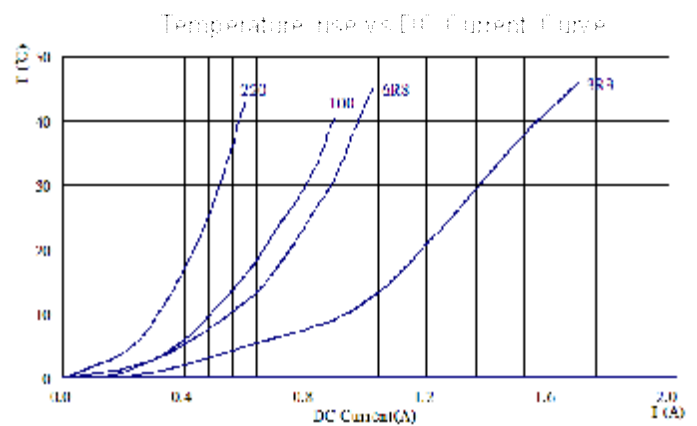
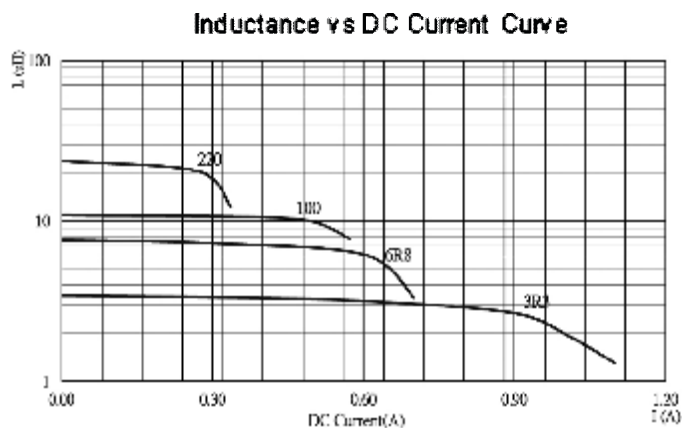
Test equipments :

- Inductance measured at 0A_{dc} on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDE 2D10 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D10-1R0N	1.0	30	100 KHz	65(50)	1.40	1.50
BDE2D10-1R2N	1.2	30	100 KHz	85(65)	1.30	1.40
BDE2D10-1R5N	1.5	30	100 KHz	100(75)	1.20	1.30
BDE2D10-2R2N	2.2	30	100 KHz	130(100)	1.10	1.10
BDE2D10-2R7N	2.7	30	100 KHz	170(130)	0.95	1.00
BDE2D10-3R3N	3.3	30	100 KHz	190(145)	0.87	0.90
BDE2D10-4R7N	4.7	30	100 KHz	240(185)	0.75	0.80
BDE2D10-5R6N	5.6	30	100 KHz	295(225)	0.68	0.75
BDE2D10-6R8N	6.8	30	100 KHz	320(245)	0.60	0.70
BDE2D10-8R2N	8.2	30	100 KHz	415(320)	0.55	0.65
BDE2D10-100M	10.0	20	100 KHz	480(370)	0.50	0.60
BDE2D10-120M	12.0	20	100 KHz	585(450)	0.37	0.55
BDE2D10-150M	15.0	20	100 KHz	650(500)	0.33	0.50
BDE2D10-180M	18.0	20	100 KHz	735(565)	0.30	0.45
BDE2D10-220M	22.0	20	100 KHz	1040(800)	0.28	0.42

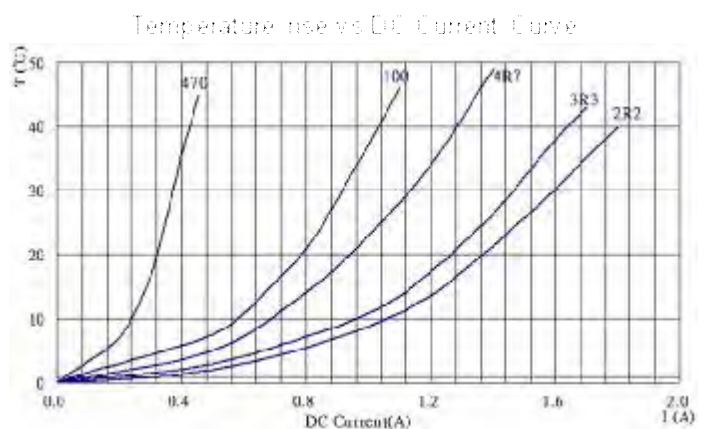
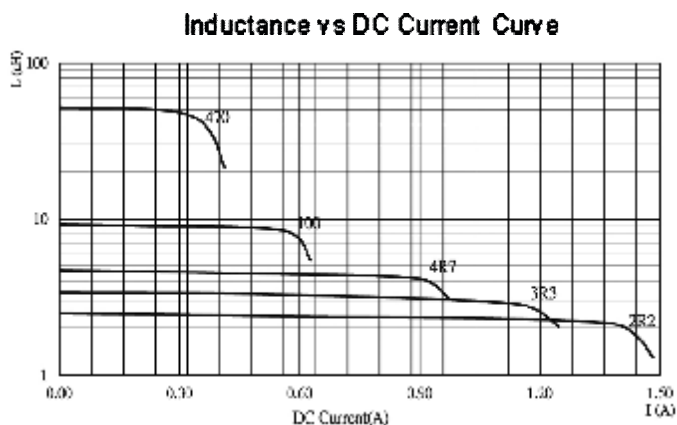
Typical performance curves :



● BDE 2D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D12-1R2N	1.2	30	100KHz	70(55)	1.70	1.70
BDE2D12-1R5N	1.5	30	100KHz	80(60)	1.60	1.60
BDE2D12-1R8N	1.8	30	100KHz	90(70)	1.50	1.50
BDE2D12-2R2N	2.2	30	100KHz	105(80)	1.40	1.40
BDE2D12-2R7N	2.7	30	100KHz	130(100)	1.30	1.30
BDE2D12-3R3N	3.3	30	100KHz	145(110)	1.10	1.20
BDE2D12-3R9N	3.9	30	100KHz	180(140)	1.00	1.10
BDE2D12-4R7N	4.7	30	100KHz	195(150)	0.90	1.00
BDE2D12-5R6N	5.6	30	100KHz	215(165)	0.85	0.95
BDE2D12-6R8N	6.8	30	100KHz	260(200)	0.75	0.90
BDE2D12-8R2N	8.2	30	100KHz	315(240)	0.70	0.82
BDE2D12-100M	10.0	20	100KHz	325(250)	0.54	0.80
BDE2D12-120M	12.0	20	100KHz	390(300)	0.50	0.72
BDE2D12-150M	15.0	20	100KHz	475(365)	0.45	0.66
BDE2D12-180M	18.0	20	100KHz	630(485)	0.42	0.57
BDE2D12-220M	22.0	20	100KHz	735(565)	0.38	0.52
BDE2D12-270M	27.0	20	100KHz	940(725)	0.32	0.45
BDE2D12-330M	33.0	20	100KHz	1070(825)	0.30	0.42
BDE2D12-390M	39.0	20	100KHz	1240(955)	0.28	0.40
BDE2D12-470M	47.0	20	100KHz	1625(1250)	0.25	0.35

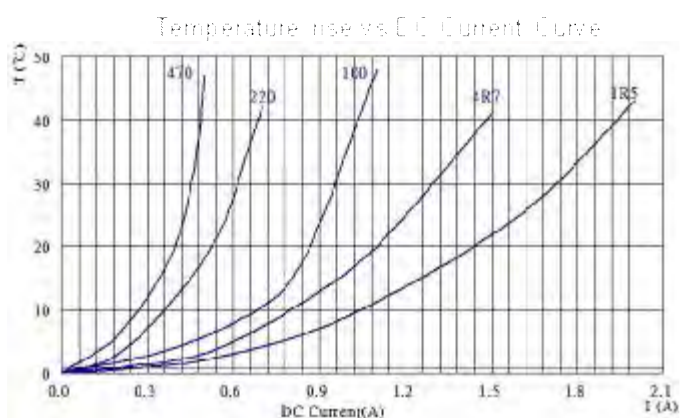
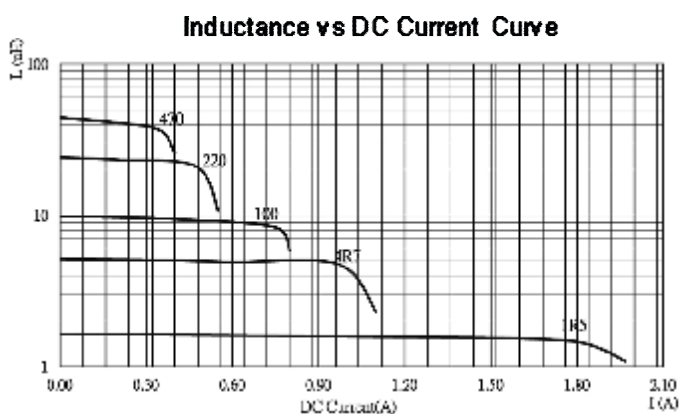
Typical performance curves :



● BDE 2D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D15-1R0N	1.0	30	100KHz	65(50)	2.10	1.80
BDE2D15-1R2N	1.2	30	100KHz	75(60)	2.00	1.70
BDE2D15-1R5N	1.5	30	100KHz	85(65)	1.80	1.60
BDE2D15-1R8N	1.8	30	100KHz	95(75)	1.60	1.50
BDE2D15-2R2N	2.2	30	100KHz	110(85)	1.50	1.40
BDE2D15-2R7N	2.7	30	100KHz	120(90)	1.40	1.35
BDE2D15-3R3N	3.3	30	100KHz	130(100)	1.20	1.30
BDE2D15-3R9N	3.9	30	100KHz	145(110)	1.10	1.25
BDE2D15-4R7N	4.7	30	100KHz	175(135)	1.00	1.10
BDE2D15-5R6N	5.6	30	100KHz	195(150)	0.95	1.05
BDE2D15-6R8N	6.8	30	100KHz	250(190)	0.87	0.94
BDE2D15-8R2N	8.2	30	100KHz	280(215)	0.80	0.83
BDE2D15-100M	10.0	20	100KHz	340(260)	0.70	0.75
BDE2D15-120M	12.0	20	100KHz	375(290)	0.65	0.70
BDE2D15-150M	15.0	20	100KHz	460(355)	0.56	0.64
BDE2D15-180M	18.0	20	100KHz	565(435)	0.52	0.58
BDE2D15-220M	22.0	20	100KHz	635(490)	0.47	0.55
BDE2D15-270M	27.0	20	100KHz	865(665)	0.42	0.50
BDE2D15-330M	33.0	20	100KHz	1005(775)	0.39	0.45
BDE2D15-390M	39.0	20	100KHz	1265(975)	0.35	0.40
BDE2D15-470M	47.0	20	100KHz	1475(1135)	0.32	0.38

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDE SERIES

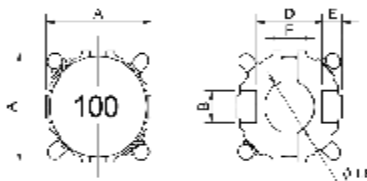
SHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BDE3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6
BDE3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6
BDE3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6

Item	G	H	I	J
BDE3D12	4.0	1.5	1.4	2.0
BDE3D15	4.0	1.5	1.4	2.0
BDE3D18	4.0	1.5	1.4	2.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic Resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

BDE3D12 – 4R7 N

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core and magnetic epoxy resin. **3D** is 3.8mm square and **12** is about 1.2mm height.

(2) Inductance : **4R7** for 4.7 uH.

(3) Inductance tolerance : **N**: ± 30% ; **M**: ± 20%.

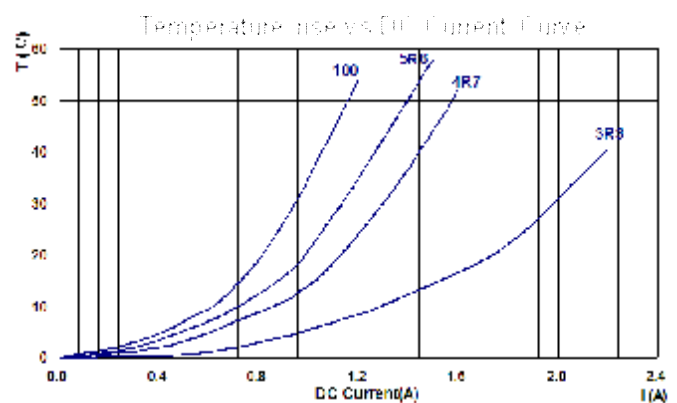
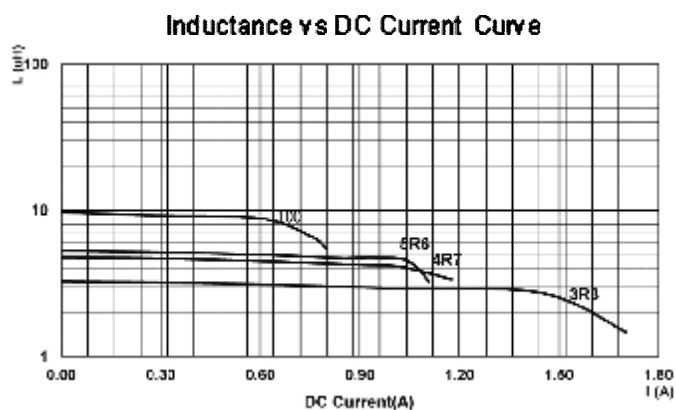
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDE 3D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D12-1R0N	1.0	30	100 KHz	60(50)	2.20	1.50
BDE3D12-1R2N	1.2	30	100 KHz	65(55)	2.00	1.40
BDE3D12-1R8N	1.8	30	100 KHz	85(70)	1.80	1.30
BDE3D12-2R2N	2.2	30	100 KHz	95(80)	1.60	1.20
BDE3D12-2R7N	2.7	30	100 KHz	120(100)	1.40	1.05
BDE3D12-3R3N	3.3	30	100 KHz	140(115)	1.30	1.00
BDE3D12-4R7N	4.7	30	100 KHz	175(145)	1.10	0.90
BDE3D12-5R6N	5.6	30	100 KHz	190(160)	1.00	0.84
BDE3D12-6R8N	6.8	30	100 KHz	240(200)	0.90	0.80
BDE3D12-8R2N	8.2	30	100 KHz	265(220)	0.84	0.77
BDE3D12-100M	10.0	20	100 KHz	280(235)	0.65	0.75
BDE3D12-120M	12.0	20	100 KHz	360(300)	0.60	0.65
BDE3D12-150M	15.0	20	100 KHz	420(350)	0.55	0.60
BDE3D12-180M	18.0	20	100 KHz	575(480)	0.48	0.50
BDE3D12-220M	22.0	20	100 KHz	650(540)	0.45	0.48
BDE3D12-270M	27.0	20	100 KHz	820(680)	0.38	0.42
BDE3D12-330M	33.0	20	100 KHz	935(780)	0.35	0.42
BDE3D12-390M	39.0	20	100 KHz	1090(910)	0.32	0.37
BDE3D12-470M	47.0	20	100 KHz	1440(1200)	0.28	0.32

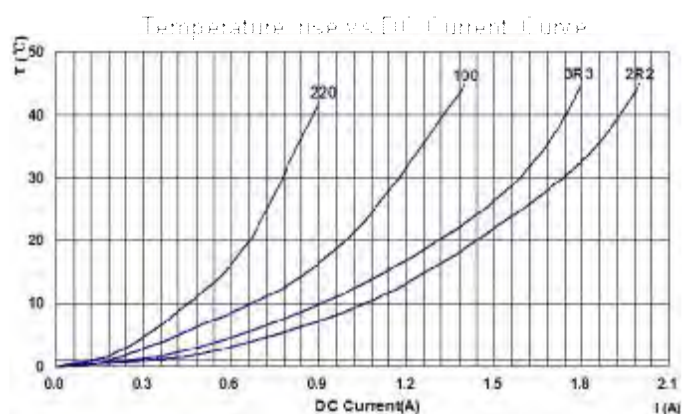
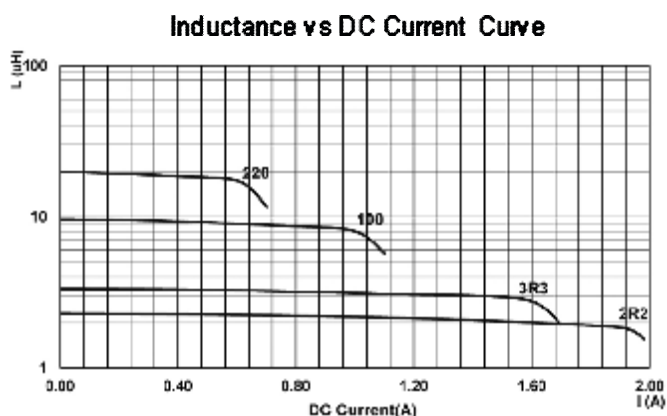
Typical performance curves :



● BDE 3D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D15-1R0N	1.0	30	100KHz	60(50)	2.70	1.50
BDE3D15-1R2N	1.2	30	100KHz	70(60)	2.30	1.40
BDE3D15-1R8N	1.8	30	100KHz	85(70)	2.10	1.30
BDE3D15-2R2N	2.2	30	100KHz	95(80)	1.90	1.25
BDE3D15-2R7N	2.7	30	100KHz	105(90)	1.70	1.20
BDE3D15-3R3N	3.3	30	100KHz	120(100)	1.50	1.10
BDE3D15-3R9N	3.9	30	100KHz	130(110)	1.40	1.05
BDE3D15-4R7N	4.7	30	100KHz	140(120)	1.30	1.00
BDE3D15-5R6N	5.6	30	100KHz	150(125)	1.20	0.95
BDE3D15-6R8N	6.8	30	100KHz	180(150)	1.10	0.90
BDE3D15-8R2N	8.2	30	100KHz	215(180)	1.00	0.80
BDE3D15-100M	10.0	20	100KHz	245(205)	0.90	0.76
BDE3D15-120M	12.0	20	100KHz	290(240)	0.75	0.70
BDE3D15-150M	15.0	20	100KHz	335(280)	0.70	0.65
BDE3D15-180M	18.0	20	100KHz	430(360)	0.60	0.57
BDE3D15-220M	22.0	20	100KHz	480(400)	0.55	0.50
BDE3D15-270M	27.0	20	100KHz	635(530)	0.48	0.45
BDE3D15-330M	33.0	20	100KHz	720(600)	0.42	0.42
BDE3D15-390M	39.0	20	100KHz	940(785)	0.38	0.37
BDE3D15-470M	47.0	20	100KHz	1030(860)	0.35	0.35

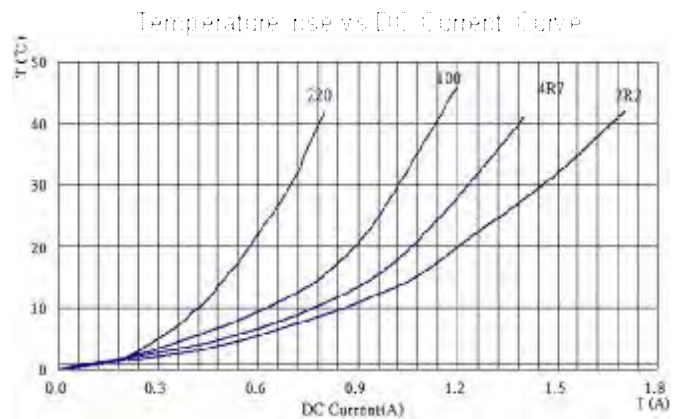
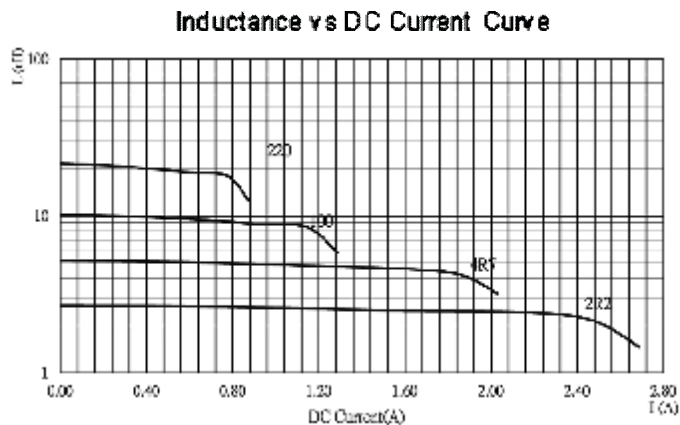
Typical performance curves :



● BDE 3D18 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D18-1R0N	1.0	30	100KHz	65(55)	3.50	1.60
BDE3D18-1R2N	1.2	30	100KHz	75(60)	3.10	1.50
BDE3D18-1R5N	1.5	30	100KHz	85(70)	2.80	1.40
BDE3D18-1R8N	1.8	30	100KHz	95(80)	2.60	1.35
BDE3D18-2R2N	2.2	30	100KHz	105(90)	2.40	1.25
BDE3D18-3R3N	3.3	30	100KHz	120(100)	2.20	1.20
BDE3D18-3R9N	3.9	30	100KHz	130(110)	2.00	1.15
BDE3D18-4R7N	4.7	30	100KHz	145(120)	1.80	1.10
BDE3D18-5R6N	5.6	30	100KHz	170(140)	1.60	1.00
BDE3D18-6R8N	6.8	30	100KHz	180(150)	1.50	0.95
BDE3D18-8R2N	8.2	30	100KHz	205(170)	1.40	0.82
BDE3D18-100M	10.0	20	100KHz	245(205)	1.10	0.75
BDE3D18-120M	12.0	20	100KHz	275(230)	1.00	0.70
BDE3D18-150M	15.0	20	100KHz	360(300)	0.90	0.62
BDE3D18-180M	18.0	20	100KHz	410(340)	0.85	0.58
BDE3D18-220M	22.0	20	100KHz	515(430)	0.75	0.52
BDE3D18-270M	27.0	20	100KHz	600(500)	0.70	0.48
BDE3D18-330M	33.0	20	100KHz	770(640)	0.60	0.42
BDE3D18-390M	39.0	20	100KHz	845(705)	0.55	0.40
BDE3D18-470M	47.0	20	100KHz	1160(965)	0.48	0.35

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDE SERIES

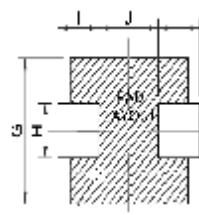
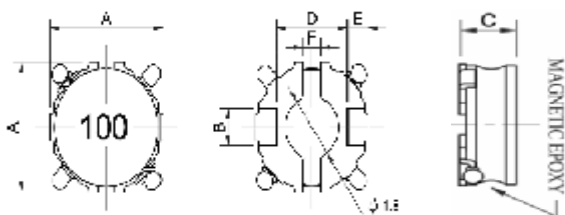
SHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BDE4D12	4.6±0.3	1.3	1.2	3.2	0.7	0.6
BDE4D15	4.6±0.3	1.3	1.5	3.2	0.7	0.6

Item	G	H	I	J
BDE4D12	5.0	1.6	1.4	2.8
BDE4D15	5.0	1.6	1.4	2.8

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic Resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max.. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

BDE4D12 – 470 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with **DR** core and magnetic Epoxy resin. **4D** is 4.6mm square and **12** is about 1.2mm height.

(2) Inductance : **470** for **47** uH.

(4) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

Test equipments :

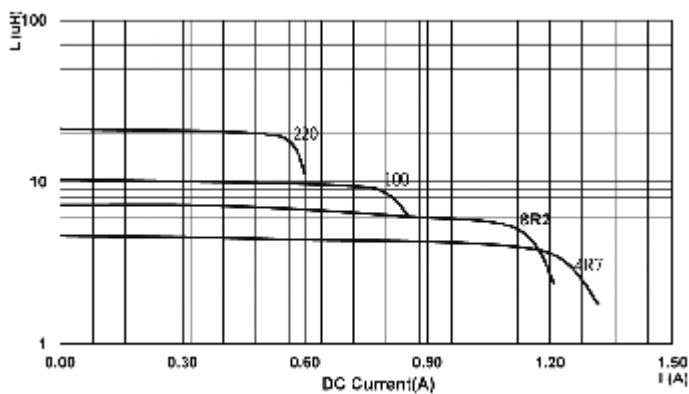
- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDE 4D12 series

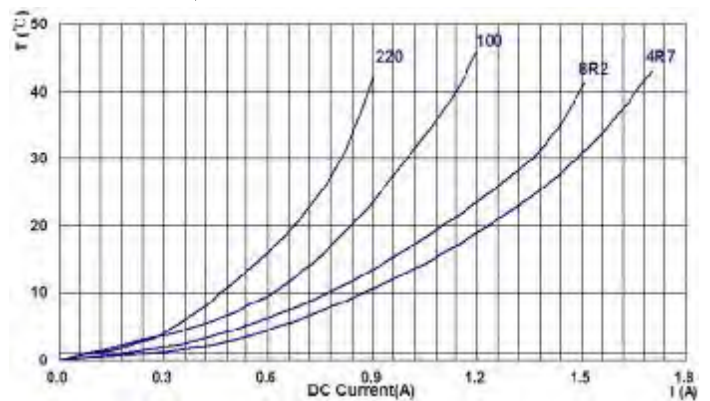
Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE4D12-1R2N	1.2	30	100KHz	65(55)	2.10	1.90
BDE4D12-1R8N	1.8	30	100KHz	80(65)	1.70	1.80
BDE4D12-2R2N	2.2	30	100KHz	90(75)	1.50	1.65
BDE4D12-3R3N	3.3	30	100KHz	110(90)	1.40	1.55
BDE4D12-3R9N	3.9	30	100KHz	120(100)	1.30	1.40
BDE4D12-4R7N	4.7	30	100KHz	145(120)	1.20	1.35
BDE4D12-5R6N	5.6	30	100KHz	155(130)	1.10	1.25
BDE4D12-6R8N	6.8	30	100KHz	175(145)	0.90	1.20
BDE4D12-8R2N	8.2	30	100KHz	215(180)	0.80	1.15
BDE4D12-100M	10.0	20	100KHz	240(200)	0.70	1.10
BDE4D12-120M	12.0	20	100KHz	295(245)	0.65	1.00
BDE4D12-150M	15.0	20	100KHz	335(280)	0.60	0.92
BDE4D12-180M	18.0	20	100KHz	415(345)	0.55	0.84
BDE4D12-220M	22.0	20	100KHz	445(370)	0.45	0.75
BDE4D12-270M	27.0	20	100KHz	590(490)	0.38	0.65
BDE4D12-330M	33.0	20	100KHz	660(550)	0.35	0.60
BDE4D12-390M	39.0	20	100KHz	755(630)	0.32	0.55
BDE4D12-470M	47.0	20	100KHz	990(825)	0.28	0.50

Typical performance curves :

Inductance vs DC Current Curve



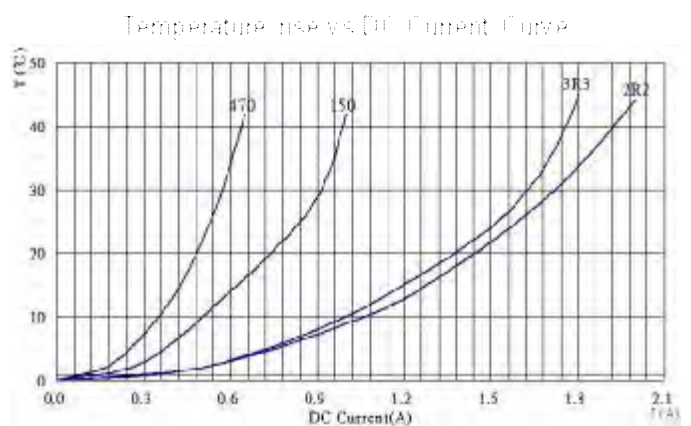
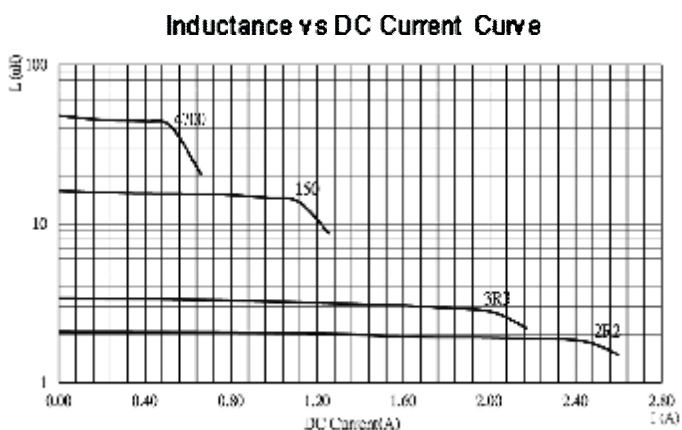
Temperature rise vs DC Current Curve



● BDE 4D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE4D15-2R2N	2.2	30	100KHz	90(75)	2.40	1.70
BDE4D15-2R7N	2.7	30	100KHz	105(90)	2.20	1.60
BDE4D15-3R3N	3.3	30	100KHz	120(100)	2.00	1.50
BDE4D15-3R9N	3.9	30	100KHz	140(115)	1.80	1.40
BDE4D15-4R7N	4.7	30	100KHz	150(125)	1.70	1.30
BDE4D15-5R6N	5.6	30	100KHz	170(140)	1.50	1.25
BDE4D15-6R8N	6.8	30	100KHz	180(150)	1.40	1.20
BDE4D15-8R2N	8.2	30	100KHz	205(170)	1.30	1.10
BDE4D15-100M	10.0	20	100KHz	240(200)	1.20	1.00
BDE4D15-120M	12.0	20	100KHz	290(240)	1.10	0.90
BDE4D15-150M	15.0	20	100KHz	325(270)	1.00	0.85
BDE4D15-180M	18.0	20	100KHz	420(350)	0.80	0.75
BDE4D15-220M	22.0	20	100KHz	445(370)	0.70	0.72
BDE4D15-270M	27.0	20	100KHz	490(410)	0.65	0.70
BDE4D15-330M	33.0	20	100KHz	630(525)	0.55	0.62
BDE4D15-390M	39.0	20	100KHz	720(600)	0.50	0.58
BDE4D15-470M	47.0	20	100KHz	900(750)	0.45	0.52
BDE4D15-560M	56.0	20	100KHz	1190(990)	0.42	0.45
BDE4D15-680M	68.0	20	100KHz	1345(1120)	0.40	0.42
BDE4D15-101M	100.0	20	100KHz	2065(1720)	0.32	0.35

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDR SERIES

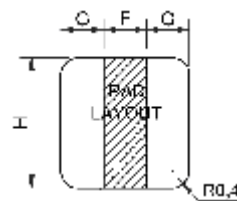
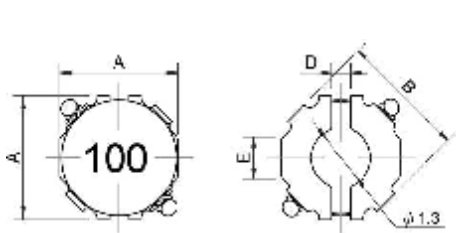
UNSHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BDR2D10	3.0±0.2	3.2	1.0	0.5	1.0
BDR2D12	3.0±0.2	3.2	1.2	0.5	1.0
BDR2D15	3.0±0.2	3.2	1.5	0.5	1.0

Item	F	G	H
BDR2D10	1.0	1.0	3.0
BDR2D12	1.0	1.0	3.0
BDR2D15	1.0	1.0	3.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically unshielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature : -40°C to 105°C.

Product identification :

BDR2D10 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with **DR** core.

2D is 3.0mm square and **10** is about 1.0mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **M**: ± 20%.

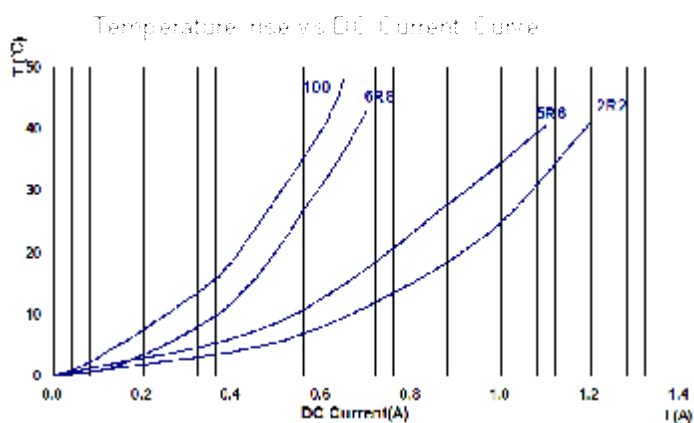
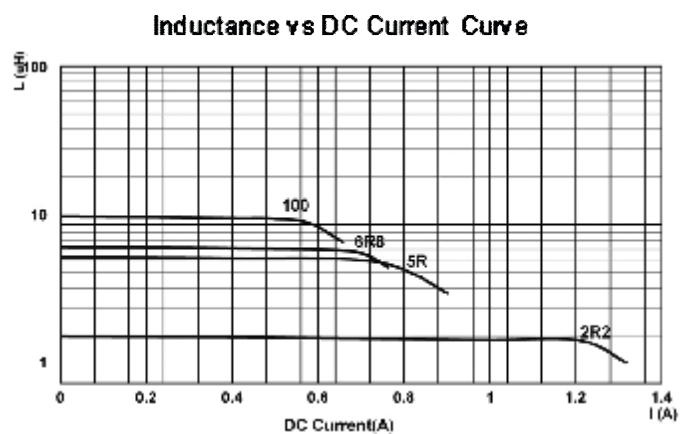
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDR 2D10 series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR2D10-1R0M	1.0	20	100 KHz	91 (70)	1.50	1.90	1.70
BDR2D10-1R2M	1.2	20	100 KHz	104 (80)	1.30	1.80	1.60
BDR2D10-2R2M	2.2	20	100 KHz	187 (150)	1.00	1.30	1.50
BDR2D10-3R3M	3.3	20	100 KHz	287 (230)	0.80	1.10	1.40
BDR2D10-3R9M	3.9	20	100 KHz	312 (250)	0.70	1.00	1.30
BDR2D10-4R7M	4.7	20	100 KHz	400 (320)	0.65	0.90	1.20
BDR2D10-5R6M	5.6	20	100 KHz	475 (380)	0.60	0.85	1.05
BDR2D10-6R8M	6.8	20	100 KHz	537 (430)	0.55	0.72	1.00
BDR2D10-8R2M	8.2	20	100 KHz	662 (530)	0.50	0.68	0.90
BDR2D10-100M	10.0	20	100 KHz	781 (625)	0.46	0.65	0.80
BDR2D10-120M	12.0	20	100 KHz	843 (675)	0.43	0.60	0.75
BDR2D10-150M	15.0	20	100 KHz	1200 (960)	0.38	0.50	0.70

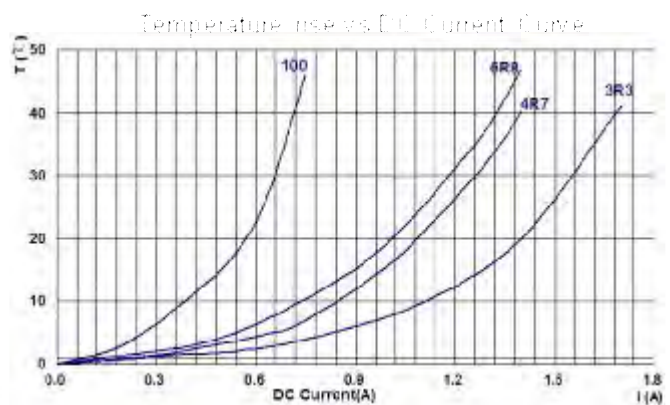
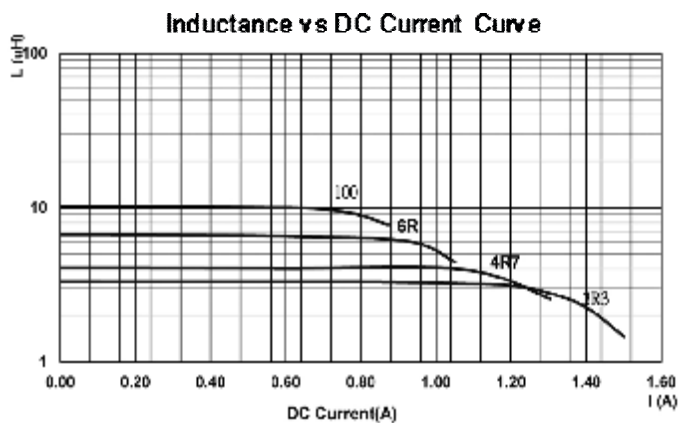
Typical performance curves :



● BDR 2D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR2D12-1R2M	1.2	20	100 KHz	78 (63)	2.10	2.40	1.59
BDR2D12-1R5M	1.5	20	100 KHz	93 (74)	1.70	2.00	1.47
BDR2D12-2R2M	2.2	20	100 KHz	118 (95)	1.60	1.70	1.20
BDR2D12-2R7M	2.7	20	100 KHz	156 (125)	1.30	1.50	1.09
BDR2D12-3R3M	3.3	20	100 KHz	175 (140)	1.20	1.40	1.03
BDR2D12-3R9M	3.9	20	100 KHz	212 (170)	1.10	1.30	0.94
BDR2D12-4R7M	4.7	20	100 KHz	275 (220)	1.00	1.20	0.82
BDR2D12-5R6M	5.6	20	100 KHz	312 (250)	0.85	1.10	0.77
BDR2D12-6R8M	6.8	20	100 KHz	350 (280)	0.80	1.00	0.71
BDR2D12-8R2M	8.2	20	100 KHz	556 (445)	0.75	0.92	0.60
BDR2D12-100M	10.0	20	100 KHz	650 (520)	0.70	0.78	0.55
BDR2D12-120M	12.0	20	100 KHz	718 (575)	0.65	0.72	0.52
BDR2D12-150M	15.0	20	100 KHz	781 (625)	0.60	0.65	0.48
BDR2D12-180M	18.0	20	100 KHz	1068 (855)	0.55	0.58	0.41
BDR2D12-220M	22.0	20	100 KHz	1262 (1010)	0.50	0.55	0.38
BDR2D12-270M	27.0	20	100 KHz	1812 (1450)	0.42	0.46	0.33

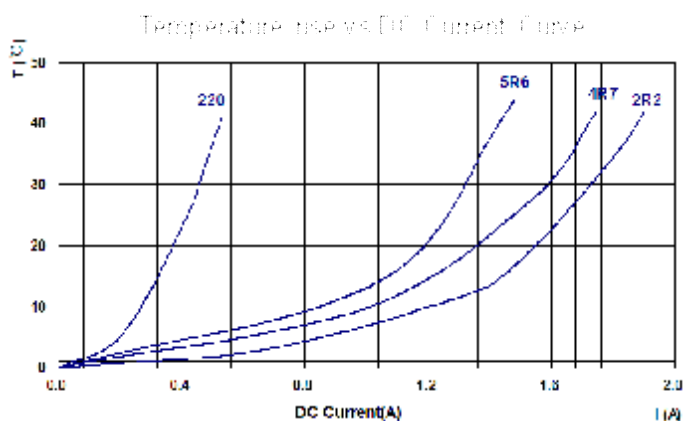
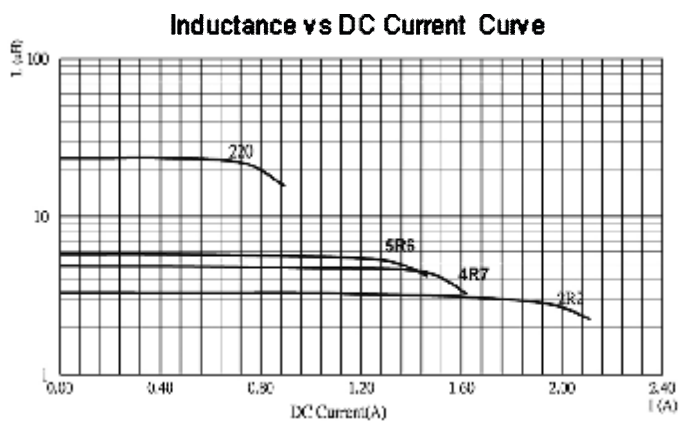
Typical performance curves :



● BDR 2D15 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					ΔL/L10%TYP.	ΔL/L30%TYP.	
BDR2D15-1R2M	1.2	20	100 KHz	88 (70)	2.30	2.60	1.90
BDR2D15-1R5M	1.5	20	100 KHz	100 (80)	2.00	2.40	1.80
BDR2D15-2R2M	2.2	20	100 KHz	119 (95)	1.70	2.10	1.60
BDR2D15-2R7M	2.7	20	100 KHz	144 (115)	1.60	1.90	1.50
BDR2D15-3R3M	3.3	20	100 KHz	156 (125)	1.50	1.80	1.40
BDR2D15-3R9M	3.9	20	100 KHz	169 (135)	1.30	1.70	1.30
BDR2D15-4R7M	4.7	20	100 KHz	225 (180)	1.20	1.50	1.20
BDR2D15-5R6M	5.6	20	100 KHz	250 (200)	1.10	1.40	1.05
BDR2D15-6R8M	6.8	20	100 KHz	300 (240)	1.00	1.30	1.00
BDR2D15-8R2M	8.2	20	100 KHz	325 (260)	0.90	1.10	0.95
BDR2D15-100M	10.0	20	100 KHz	437 (350)	0.85	1.00	0.90
BDR2D15-120M	12.0	20	100 KHz	487 (390)	0.75	0.90	0.70
BDR2D15-150M	15.0	20	100 KHz	700 (560)	0.65	0.80	0.60
BDR2D15-180M	18.0	20	100 KHz	938 (750)	0.60	0.75	0.55
BDR2D15-220M	22.0	20	100 KHz	1050 (840)	0.55	0.70	0.50
BDR2D15-270M	27.0	20	100 KHz	1312 (1050)	0.50	0.58	0.45
BDR2D15-330M	33.0	20	100 KHz	1562 (1250)	0.45	0.52	0.40
BDR2D15-390M	39.0	20	100 KHz	1750 (1400)	0.40	0.48	0.37

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDR SERIES

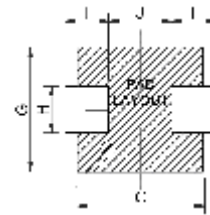
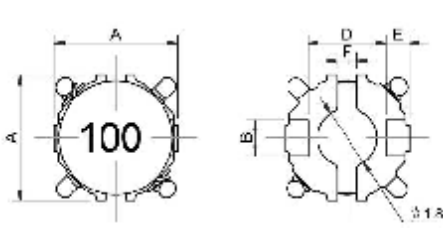
UNSHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BDR3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6
BDR3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6
BDR3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6

Item	G	H	I	J
BDR3D12	4.0	1.5	1.4	2.0
BDR3D15	4.0	1.5	1.4	2.0
BDR3D18	4.0	1.5	1.4	2.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically unshielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature : -40°C to 105 °C.

Product identification :

BDR3D12 – 4R7 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core 3D is 3.8mm square and 12 is about 1.2mm height.

(2) Inductance : **4R7** for 4.7 uH.

(3) Inductance tolerance : **M**: ± 20%.

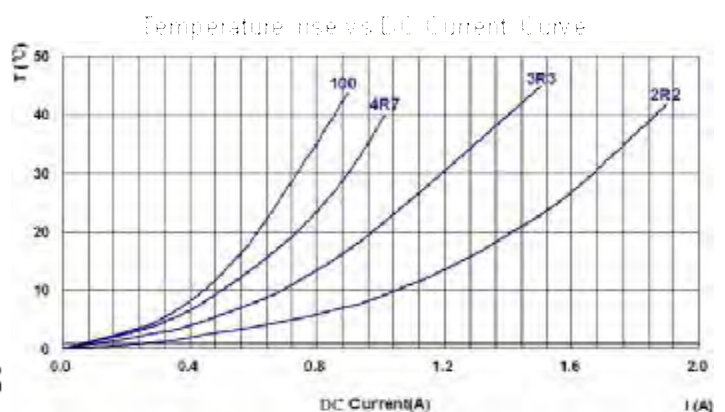
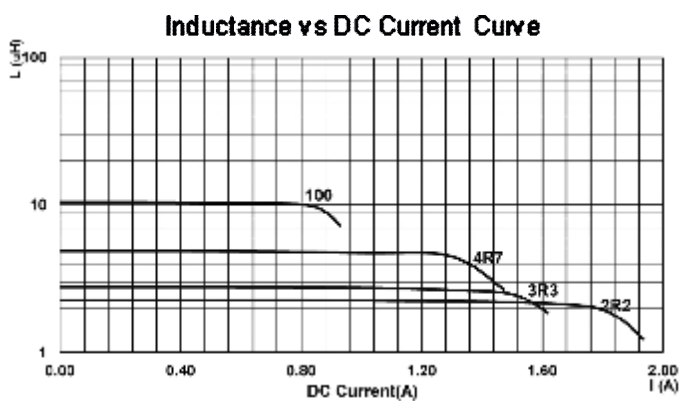
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDR 3D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR3D12-1R0M	1.0	20	100 KHz	64 (53)	2.10	2.70	2.30
BDR3D12-1R2M	1.2	20	100 KHz	79 (64)	1.80	2.40	2.10
BDR3D12-2R2M	2.2	20	100 KHz	102 (85)	1.50	1.80	1.78
BDR3D12-2R7M	2.7	20	100 KHz	132 (110)	1.30	1.60	1.47
BDR3D12-3R3M	3.3	20	100 KHz	168 (140)	1.20	1.40	1.30
BDR3D12-3R9M	3.9	20	100 KHz	195 (162)	1.00	1.30	1.20
BDR3D12-4R7M	4.7	20	100 KHz	240 (200)	0.90	1.20	0.90
BDR3D12-5R6M	5.6	20	100 KHz	288 (240)	0.85	1.10	0.84
BDR3D12-6R8M	6.8	20	100 KHz	312 (260)	0.80	1.00	0.78
BDR3D12-8R2M	8.2	20	100 KHz	420 (350)	0.70	0.85	0.70
BDR3D12-100M	10.0	20	100 KHz	480 (400)	0.65	0.82	0.65
BDR3D12-120M	12.0	20	100 KHz	618 (515)	0.60	0.70	0.57
BDR3D12-150M	15.0	20	100 KHz	732 (610)	0.52	0.65	0.52
BDR3D12-180M	18.0	20	100 KHz	816 (680)	0.48	0.62	0.48
BDR3D12-220M	22.0	20	100 KHz	1032 (860)	0.44	0.54	0.44
BDR3D12-270M	27.0	20	100 KHz	1176 (980)	0.40	0.50	0.40
BDR3D12-330M	33.0	20	100 KHz	1392 (1160)	0.36	0.45	0.38
BDR3D12-390M	39.0	20	100 KHz	1920 (1600)	0.33	0.40	0.32

Typical performance curves :

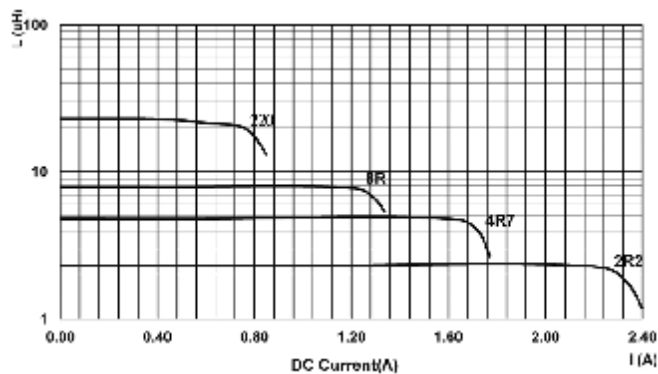


● BDR 3D15 series

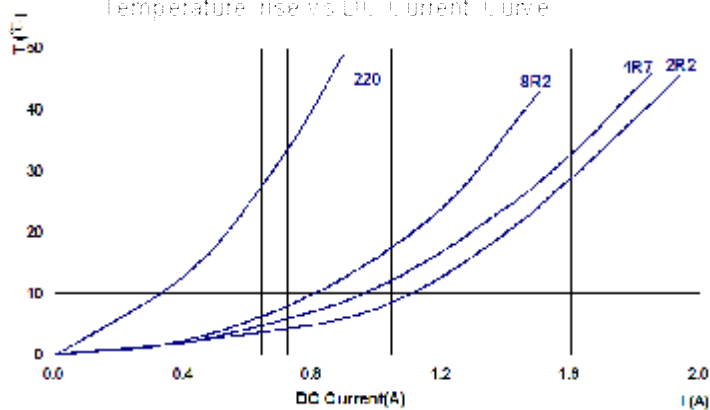
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					ΔL/L10%TYP.	ΔL/L30%TYP.	
BDR3D15-1R0M	1.0	20	100 KHz	78 (65)	2.50	3.00	2.20
BDR3D15-2R2M	2.2	20	100 KHz	108 (90)	1.90	2.30	1.85
BDR3D15-3R3M	3.3	20	100 KHz	126 (105)	1.40	2.00	1.70
BDR3D15-3R9M	3.9	20	100 KHz	150 (125)	1.20	1.70	1.65
BDR3D15-4R7M	4.7	20	100 KHz	168 (140)	1.10	1.60	1.40
BDR3D15-6R8M	6.8	20	100 KHz	228 (190)	0.95	1.30	1.30
BDR3D15-8R2M	8.2	20	100 KHz	264 (220)	0.90	1.20	1.20
BDR3D15-100M	10.0	20	100 KHz	300 (250)	0.85	1.10	1.10
BDR3D15-120M	12.0	20	100 KHz	378 (315)	0.78	1.00	1.00
BDR3D15-150M	15.0	20	100 KHz	444 (370)	0.68	0.90	0.90
BDR3D15-180M	18.0	20	100 KHz	564 (470)	0.62	0.80	0.79
BDR3D15-220M	22.0	20	100 KHz	636 (530)	0.52	0.72	0.72
BDR3D15-270M	27.0	20	100 KHz	900 (750)	0.48	0.65	0.60
BDR3D15-330M	33.0	20	100 KHz	1188 (990)	0.45	0.58	0.52
BDR3D15-390M	39.0	20	100 KHz	1344 (1120)	0.42	0.55	0.48
BDR3D15-470M	47.0	20	100 KHz	1752 (1460)	0.37	0.50	0.39

Typical performance curves :

Inductance vs DC Current Curve



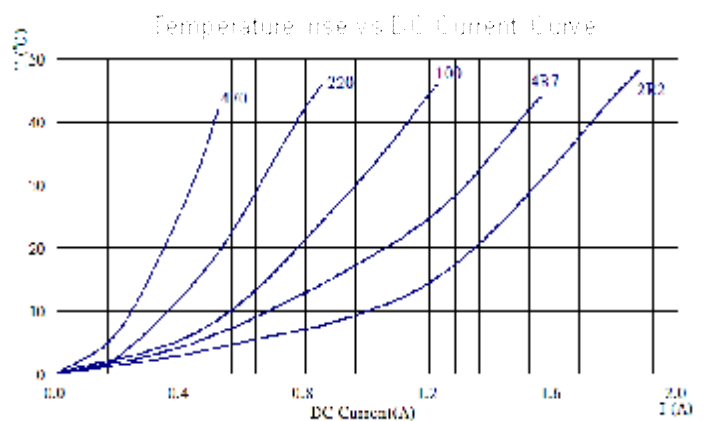
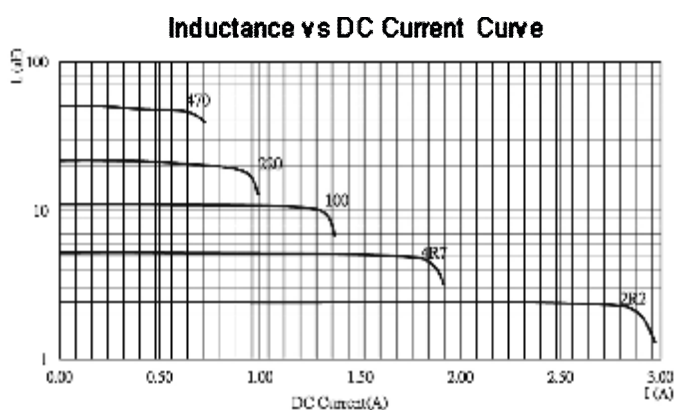
Temperature rise vs DC Current Curve



● BDR 3D18 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					ΔL/L10%TYP.	ΔL/L30%TYP.	
BDR3D18-1R0M	1.0	20	100 KHz	68 (56)	3.20	3.60	2.20
BDR3D18-1R5M	1.5	20	100 KHz	90 (75)	2.40	2.80	1.85
BDR3D18-2R2M	2.2	20	100 KHz	108 (90)	2.00	2.30	1.66
BDR3D18-2R7M	2.7	20	100 KHz	118 (98)	1.70	2.10	1.59
BDR3D18-3R3M	3.3	20	100 KHz	130 (108)	1.60	2.00	1.50
BDR3D18-3R9M	3.9	20	100 KHz	140 (116)	1.50	1.90	1.45
BDR3D18-4R7M	4.7	20	100 KHz	162 (135)	1.30	1.70	1.37
BDR3D18-5R6M	5.6	20	100 KHz	178 (148)	1.20	1.60	1.27
BDR3D18-6R8M	6.8	20	100 KHz	198 (165)	1.10	1.50	1.20
BDR3D18-8R2M	8.2	20	100 KHz	222 (185)	1.00	1.30	1.13
BDR3D18-100M	10.0	20	100 KHz	252 (210)	0.90	1.20	1.06
BDR3D18-120M	12.0	20	100 KHz	294 (245)	0.85	1.10	0.98
BDR3D18-150M	15.0	20	100 KHz	384 (320)	0.75	1.00	0.86
BDR3D18-180M	18.0	20	100 KHz	432 (360)	0.70	0.92	0.80
BDR3D18-220M	22.0	20	100 KHz	564 (470)	0.60	0.82	0.70
BDR3D18-270M	27.0	20	100 KHz	630 (525)	0.55	0.75	0.67
BDR3D18-330M	33.0	20	100 KHz	804 (670)	0.50	0.65	0.55
BDR3D18-390M	39.0	20	100 KHz	906 (755)	0.47	0.62	0.51
BDR3D18-470M	47.0	20	100 KHz	1260 (1050)	0.43	0.56	0.43
BDR3D18-560M	56.0	20	100 KHz	1620 (1350)	0.38	0.50	0.38

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDR SERIES

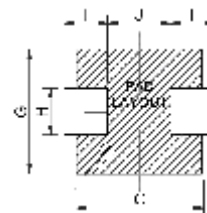
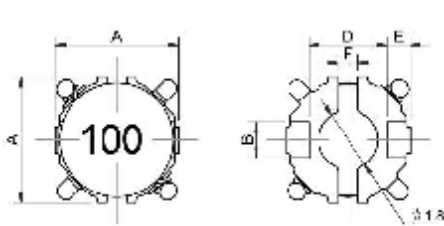
UNSHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max	D	E	F
BDR4D12	4.6±0.3	1.3	1.2	3.2	0.7	0.6
BDR4D15	4.6±0.3	1.3	1.5	3.2	0.7	0.6

Item	G	H	I	J
BDR4D12	5.0	1.6	1.4	2.8
BDR4D15	5.0	1.6	1.4	2.8

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically unshielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C)
- Operating temperature : -40°C to 105°C.

Product identification :

BDR4D12 – 470 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with **DR** core. **4D** is 4.6mm square and **12** is about 1.2mm height.

(2) Inductance : **470** for **47** uH.

(4) Inductance tolerance : **M**: ± 20%.

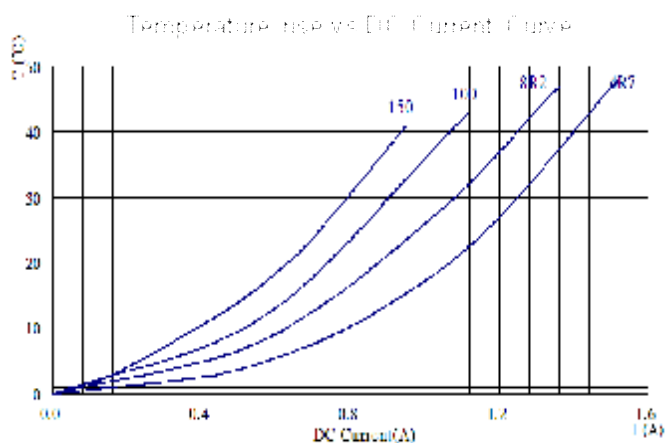
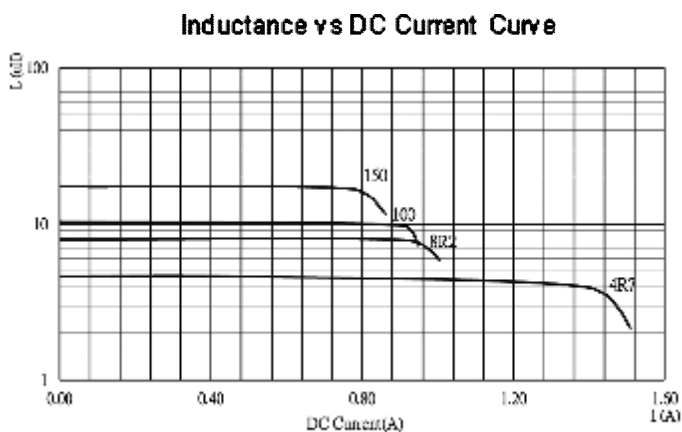
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BDR 4D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR4D12-1R0M	1.0	20	100 KHz	66 (55)	2.50	3.00	2.50
BDR4D12-1R8M	1.8	20	100 KHz	90 (75)	1.80	2.20	2.10
BDR4D12-2R2M	2.2	20	100 KHz	108 (90)	1.50	2.00	1.94
BDR4D12-3R3M	3.3	20	100 KHz	138 (115)	1.20	1.60	1.72
BDR4D12-4R7M	4.7	20	100 KHz	192 (160)	1.00	1.40	1.45
BDR4D12-5R6M	5.6	20	100 KHz	210 (175)	0.95	1.30	1.39
BDR4D12-6R8M	6.8	20	100 KHz	240 (200)	0.85	1.20	1.30
BDR4D12-8R2M	8.2	20	100 KHz	288 (240)	0.80	1.00	1.19
BDR4D12-100M	10.0	20	100 KHz	384 (320)	0.71	0.92	1.00
BDR4D12-120M	12.0	20	100 KHz	432 (360)	0.65	0.85	0.97
BDR4D12-150M	15.0	20	100 KHz	492 (410)	0.60	0.78	0.90
BDR4D12-180M	18.0	20	100 KHz	720 (600)	0.55	0.70	0.75
BDR4D12-220M	22.0	20	100 KHz	768 (640)	0.45	0.65	0.59
BDR4D12-270M	27.0	20	100 KHz	1056 (880)	0.43	0.60	0.47
BDR4D12-330M	33.0	20	100 KHz	1224 (1020)	0.40	0.56	0.44
BDR4D12-390M	39.0	20	100 KHz	1476 (1230)	0.35	0.50	0.40
BDR4D12-470M	47.0	20	100 KHz	1700 (1420)	0.32	0.42	0.37

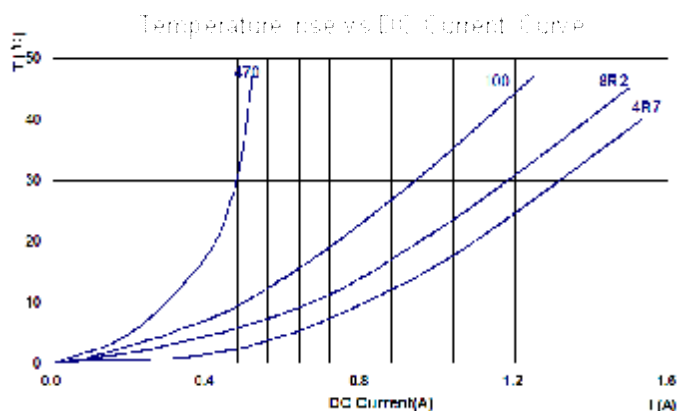
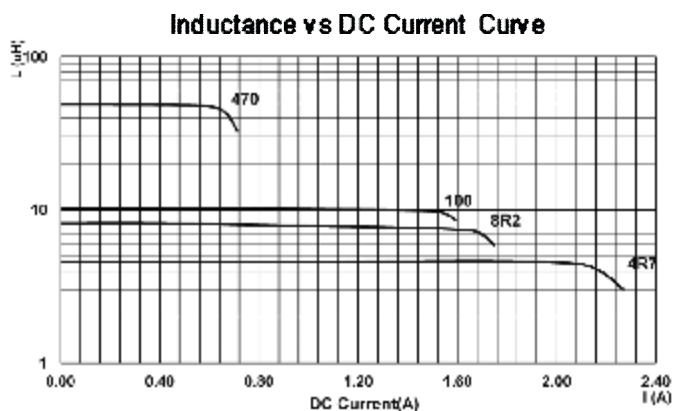
Typical performance curves :



● BDR 4D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR4D15-1R2M	1.2	20	100 KHz	78 (65)	3.40	4.00	2.35
BDR4D15-1R5M	1.5	20	100 KHz	96 (80)	3.00	3.50	2.00
BDR4D15-2R2M	2.2	20	100 KHz	108 (90)	2.60	3.00	1.95
BDR4D15-2R7M	2.7	20	100 KHz	120 (100)	2.50	2.70	1.80
BDR4D15-3R3M	3.3	20	100 KHz	138 (115)	2.10	2.50	1.70
BDR4D15-3R9M	3.9	20	100 KHz	156 (130)	1.90	2.20	1.60
BDR4D15-4R7M	4.7	20	100 KHz	174 (145)	1.80	2.10	1.50
BDR4D15-5R6M	5.6	20	100 KHz	204 (170)	1.60	1.80	1.35
BDR4D15-6R8M	6.8	20	100 KHz	222 (185)	1.40	1.70	1.30
BDR4D15-8R2M	8.2	20	100 KHz	264 (220)	1.30	1.60	1.20
BDR4D15-100M	10.0	20	100 KHz	306 (255)	1.20	1.50	1.00
BDR4D15-120M	12.0	20	100 KHz	396 (330)	1.10	1.30	0.95
BDR4D15-150M	15.0	20	100 KHz	450 (375)	1.00	1.20	0.90
BDR4D15-180M	18.0	20	100 KHz	564 (470)	0.92	1.10	0.80
BDR4D15-220M	22.0	20	100 KHz	660 (550)	0.85	1.00	0.70
BDR4D15-270M	27.0	20	100 KHz	912 (760)	0.75	0.85	0.55
BDR4D15-330M	33.0	20	100 KHz	1182 (985)	0.65	0.80	0.45
BDR4D15-390M	39.0	20	100 KHz	1380 (1150)	0.60	0.70	0.40
BDR4D15-470M	47.0	20	100 KHz	1730 (1440)	0.55	0.64	0.35

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BRI SERIES

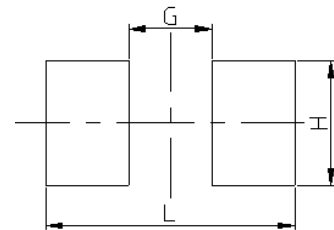
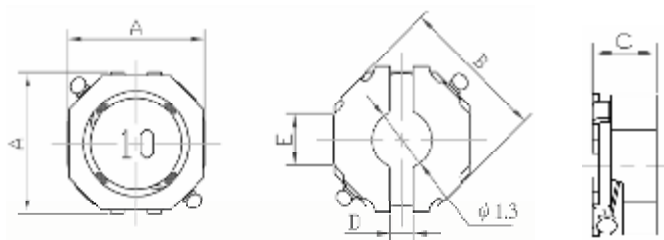
SHIELDED SMT POWER INDUCTOR

Applications :

- DSC, DVC , PDA products.
- Hand phone of new generation.
- Hard disk drives.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BRI2D10	3.0±0.2	3.2	1.0	0.5	1.0
BRI2D12	3.0±0.2	3.2	1.2	0.5	1.0
BRI2D15	3.0±0.2	3.2	1.5	0.5	1.0
BRI2D18	3.0±0.2	3.2	1.8	0.5	1.0

Item	G	H	L
BRI2D10	1.0	3.0	3.0
BRI2D12	1.8	1.2	3.2
BRI2D15	1.8	1.2	3.2
BRI2D18	1.8	1.2	3.2

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat) : The current when the inductance becomes 30% lower than its initial value (Ta=20°C).
- Temperature Rise(Irms):The current when temperature of coil increase up to max.ΔT=40°C.(Ta=20°C).
- Operating Temperature : -40°C to 105°C.

Product identification :

BRI2D10 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core and RI core

2D is 3.0mm square and **10** is about 1.0mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

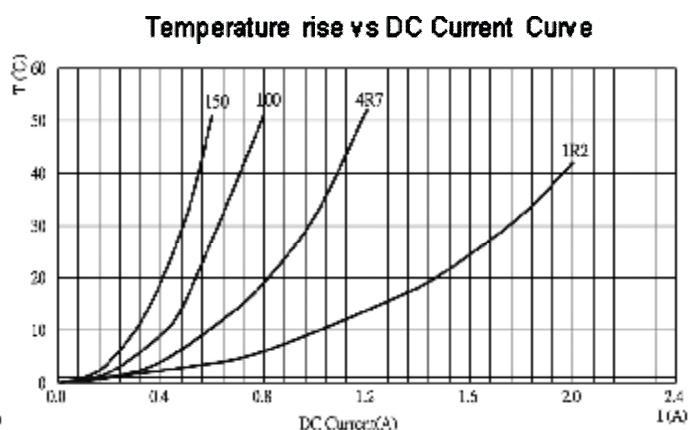
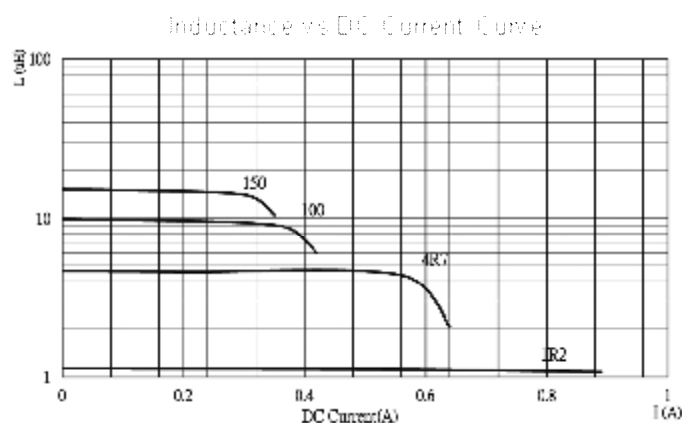
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BRI 2D10 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D10-1R2N	1.2	30	100 KHz	91 (70)	0.93	0.70	1.25
BRI2D10-2R2N	2.2	30	100 KHz	150 (115)	0.63	0.50	0.98
BRI2D10-3R3N	3.3	30	100 KHz	221 (170)	0.53	0.40	0.83
BRI2D10-4R7N	4.7	30	100 KHz	300 (230)	0.45	0.33	0.64
BRI2D10-5R6N	5.6	30	100 KHz	338 (260)	0.40	0.31	0.59
BRI2D10-6R8N	6.8	30	100 KHz	397 (305)	0.36	0.28	0.53
BRI2D10-8R2N	8.2	30	100 KHz	507 (390)	0.32	0.26	0.46
BRI2D10-100M	10.0	20	100 KHz	560 (430)	0.30	0.23	0.42
BRI2D10-120M	12.0	20	100 KHz	650 (500)	0.27	0.20	0.40
BRI2D10-150M	15.0	20	100 KHz	923 (710)	0.24	0.18	0.35
BRI2D10-180M	18.0	20	100 KHz	1066 (820)	0.22	0.17	0.33
BRI2D10-220M	22.0	20	100 KHz	1235 (950)	0.20	0.15	0.30

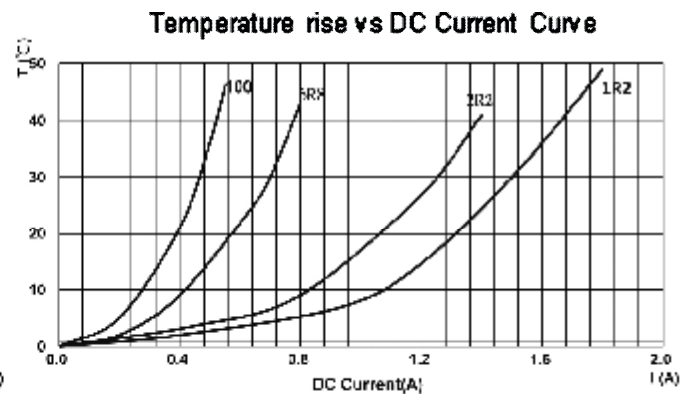
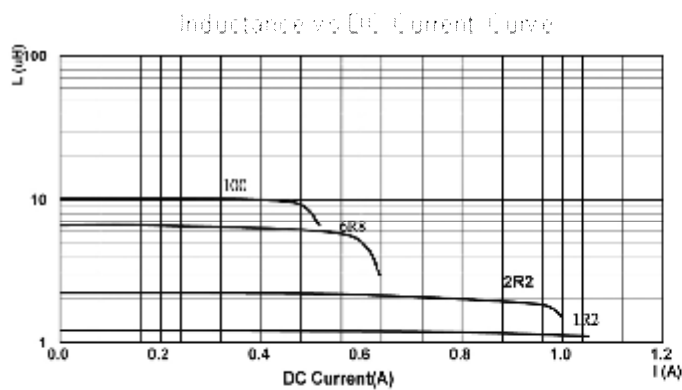
Typical performance curves :



● BRI 2D12 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D12-1R2N	1.2	30	100 KHz	117 (90)	0.85	0.70	1.05
BRI2D12-2R2N	2.2	30	100 KHz	182 (140)	0.70	0.60	0.90
BRI2D12-3R3N	3.3	30	100 KHz	260 (200)	0.60	0.50	0.82
BRI2D12-4R7N	4.7	30	100 KHz	312 (240)	0.50	0.40	0.72
BRI2D12-5R6N	5.6	30	100 KHz	442 (340)	0.46	0.35	0.67
BRI2D12-6R8N	6.8	30	100 KHz	520 (400)	0.43	0.30	0.62
BRI2D12-8R2N	8.2	30	100 KHz	560 (430)	0.38	0.28	0.58
BRI2D12-100M	10.0	20	100 KHz	780 (600)	0.33	0.25	0.55

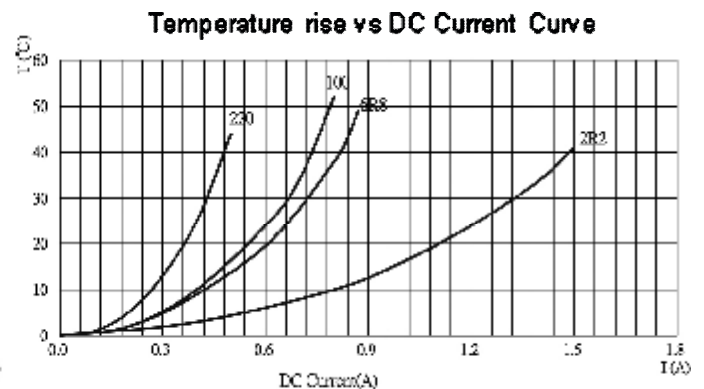
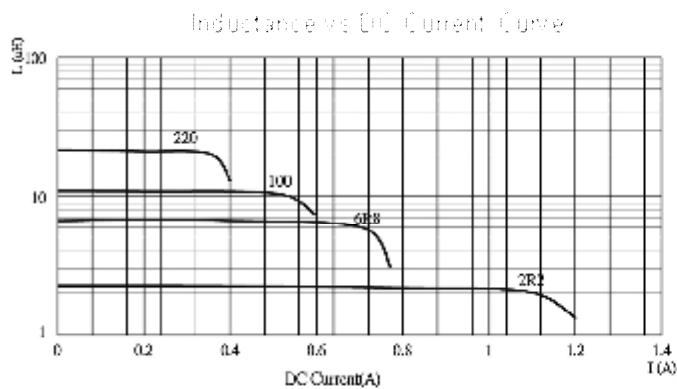
Typical performance curves :



● BRI 2D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D15-2R2N	2.2	30	100 KHz	150 (115)	1.00	0.80	1.00
BRI2D15-3R3N	3.3	30	100 KHz	234 (180)	0.90	0.70	0.90
BRI2D15-4R7N	4.7	30	100 KHz	338 (260)	0.80	0.60	0.85
BRI2D15-5R6N	5.6	30	100 KHz	364 (280)	0.70	0.55	0.80
BRI2D15-6R8N	6.8	30	100 KHz	416 (320)	0.60	0.52	0.77
BRI2D15-8R2N	8.2	30	100 KHz	572 (440)	0.55	0.48	0.72
BRI2D15-100M	10.0	20	100 KHz	624 (480)	0.50	0.45	0.70
BRI2D15-120M	12.0	20	100 KHz	702 (540)	0.45	0.40	0.65
BRI2D15-150M	15.0	20	100 KHz	949 (730)	0.40	0.35	0.50
BRI2D15-180M	18.0	20	100 KHz	1090 (840)	0.35	0.30	0.40
BRI2D15-220M	22.0	20	100 KHz	1250 (960)	0.30	0.25	0.30

Typical performance curves :

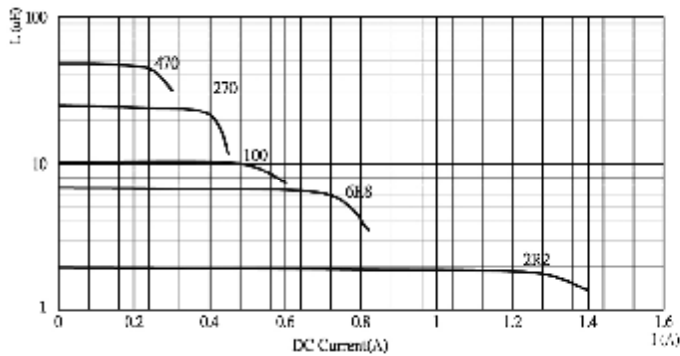


● BRI 2D18 series

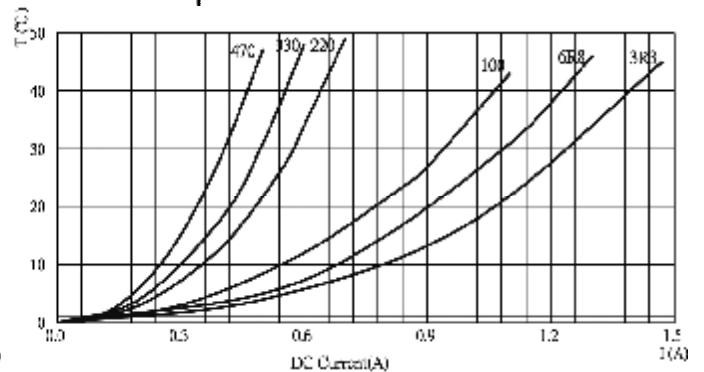
Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20 $^{\circ}$ C	100 $^{\circ}$ C	
BRI2D18-2R2N	2.2	30	100 KHz	117 (90)	1.10	0.90	1.10
BRI2D18-3R3N	3.3	30	100 KHz	143 (110)	1.00	0.80	1.00
BRI2D18-4R7N	4.7	30	100 KHz	221 (170)	0.80	0.70	0.90
BRI2D18-5R6N	5.6	30	100 KHz	247 (190)	0.75	0.60	0.85
BRI2D18-6R8N	6.8	30	100 KHz	312 (240)	0.70	0.55	0.82
BRI2D18-8R2N	8.2	30	100 KHz	351 (270)	0.60	0.50	0.78
BRI2D18-100M	10.0	20	100 KHz	468 (360)	0.55	0.48	0.75
BRI2D18-120M	12.0	20	100 KHz	533 (410)	0.50	0.45	0.65
BRI2D18-150M	15.0	20	100 KHz	598 (460)	0.45	0.40	0.55
BRI2D18-180M	18.0	20	100 KHz	715 (550)	0.40	0.33	0.50
BRI2D18-220M	22.0	20	100 KHz	975 (750)	0.38	0.30	0.45
BRI2D18-270M	27.0	20	100 KHz	1105 (850)	0.33	0.25	0.40
BRI2D18-330M	33.0	20	100 KHz	1222 (940)	0.30	0.23	0.33
BRI2D18-390M	39.0	20	100 KHz	1625 (1250)	0.25	0.20	0.28
BRI2D18-470M	47.0	20	100 KHz	1820 (1400)	0.23	0.18	0.25

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BRI SERIES

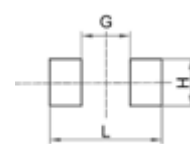
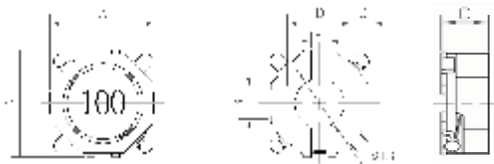
SHIELDED SMT POWER INDUCTOR

Applications :

- DSC, DVC , PDA products.
- Hand phone of new generation.
- Hard disk drives.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BRI3D12	3.8±0.2	1.1	1.2	2.4	0.7
BRI3D15	3.8±0.2	1.1	1.5	2.4	0.7
BRI3D18	3.8±0.2	1.1	1.8	2.4	0.7

Item	G	H	L
BRI3D12	2.0	1.5	4.8
BRI3D15	2.0	1.5	4.8
BRI3D18	2.0	1.5	4.8

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat) : The current when the inductance becomes 30% lower than its initial value.(Ta=20°C)
- Temperature Rise(Irms) : The current when temperature of coil increase up to max.ΔT=40°C.(Ta=20°C).
- Operating Temperature : -40°C to 105°C.

Product identification :

BRI3D12 - 220 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with DR core and **RI** core.

3D is 3.8mm square and **12** is about 1.2mm height.

(2) Inductance : **220** for **22.0** uH.

(3) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

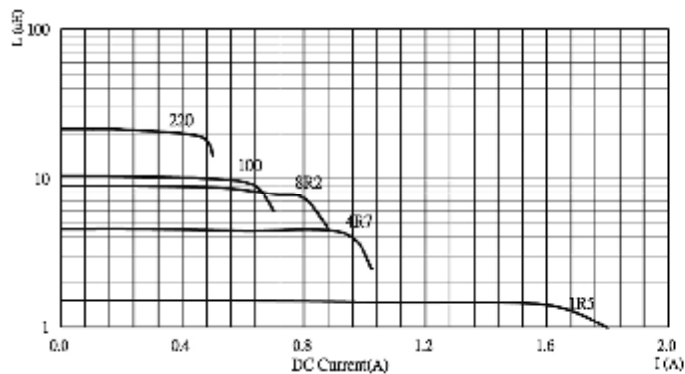


● BRI 3D12 series

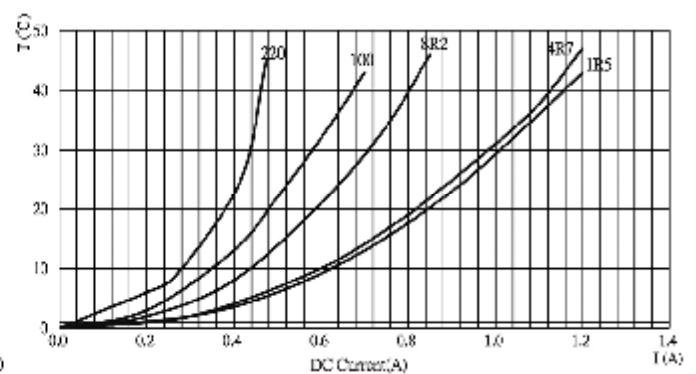
Part No	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D12-1R2N	1.2	30	100 KHz	81 (65)	1.60	1.40	1.30
BRI3D12-1R5N	1.5	30	100 KHz	100 (80)	1.40	1.20	1.10
BRI3D12-2R2N	2.2	30	100 KHz	125 (100)	1.20	0.90	0.92
BRI3D12-2R7N	2.7	30	100 KHz	188 (150)	1.10	0.85	0.87
BRI3D12-3R9N	3.9	30	100 KHz	256 (205)	1.00	0.80	0.83
BRI3D12-4R7N	4.7	30	100 KHz	287 (230)	0.90	0.70	0.80
BRI3D12-5R6N	5.6	30	100 KHz	380 (305)	0.80	0.60	0.75
BRI3D12-6R8N	6.8	30	100 KHz	450 (360)	0.70	0.55	0.65
BRI3D12-8R2N	8.2	30	100 KHz	500 (400)	0.60	0.50	0.55
BRI3D12-100M	10.0	20	100 KHz	650 (520)	0.50	0.35	0.45
BRI3D12-120M	12.0	20	100 KHz	687 (550)	0.45	0.30	0.40
BRI3D12-150M	15.0	20	100 KHz	787 (630)	0.40	0.27	0.37
BRI3D12-180M	18.0	20	100 KHz	875 (700)	0.35	0.25	0.35
BRI3D12-220M	22.0	20	100 KHz	962 (770)	0.30	0.20	0.30

Typical performance curves :

Inductance vs DC Current Curve



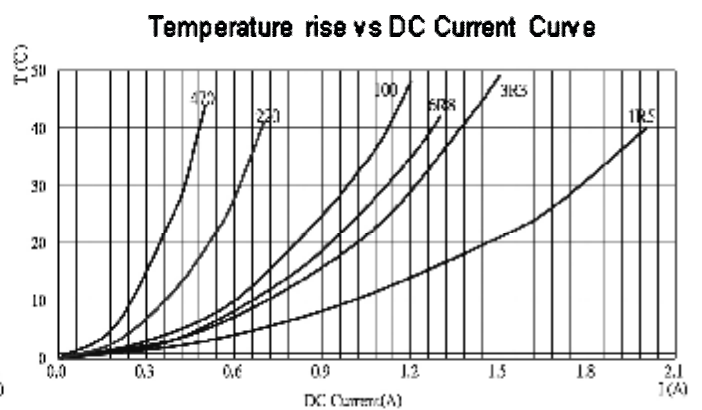
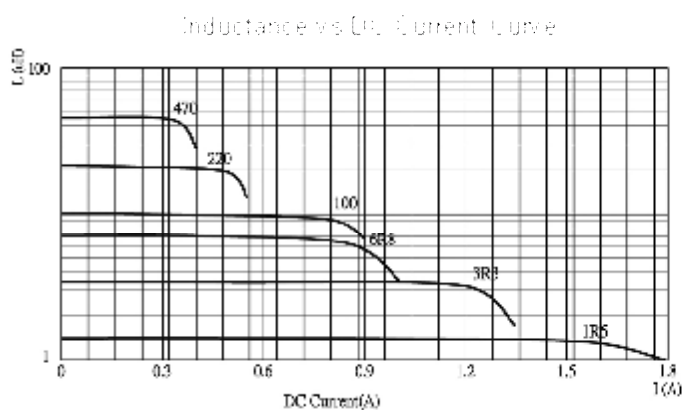
Temperature rise vs DC Current Curve



● BRI 3D15 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D15-1R0N	1.0	30	100 KHz	78 (62)	2.00	1.80	1.80
BRI3D15-1R5N	1.5	30	100 KHz	94 (75)	1.70	1.50	1.70
BRI3D15-2R2N	2.2	30	100 KHz	106 (85)	1.40	1.20	1.60
BRI3D15-2R7N	2.7	30	100 KHz	118 (95)	1.30	1.10	1.50
BRI3D15-3R3N	3.3	30	100 KHz	131 (105)	1.10	1.00	1.40
BRI3D15-3R9N	3.9	30	100 KHz	143 (115)	1.00	0.90	1.30
BRI3D15-4R7N	4.7	30	100 KHz	162 (130)	0.95	0.85	1.20
BRI3D15-5R6N	5.6	30	100 KHz	175 (140)	0.90	0.80	1.10
BRI3D15-6R8N	6.8	30	100 KHz	212 (170)	0.85	0.75	1.00
BRI3D15-8R2N	8.2	30	100 KHz	237 (190)	0.80	0.70	0.95
BRI3D15-100M	10.0	20	100 KHz	262 (210)	0.70	0.5	0.90
BRI3D15-120M	12.0	20	100 KHz	350 (280)	0.60	0.45	0.80
BRI3D15-150M	15.0	20	100 KHz	456 (365)	0.55	0.42	0.75
BRI3D15-180M	18.0	20	100 KHz	506 (405)	0.50	0.40	0.70
BRI3D15-220M	22.0	20	100 KHz	575 (460)	0.45	0.37	0.55
BRI3D15-270M	27.0	20	100 KHz	675 (540)	0.40	0.33	0.53
BRI3D15-330M	33.0	20	100 KHz	937 (750)	0.35	0.30	0.50
BRI3D15-390M	39.0	20	100 KHz	1037 (830)	0.32	0.28	0.45
BRI3D15-470M	47.0	20	100 KHz	1262 (1010)	0.28	0.22	0.43

Typical performance curves :

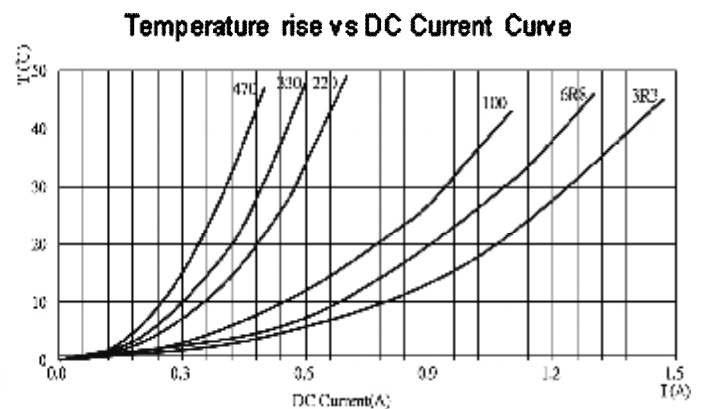
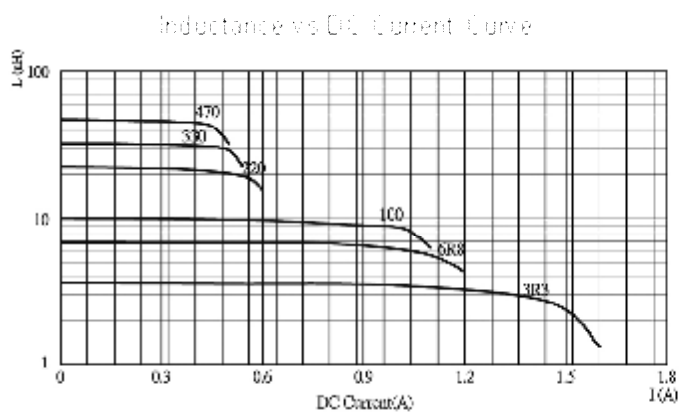




● BRI 3D18 series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D18-1R2N	1.2	30	100 KHz	88 (70)	2.00	1.80	1.90
BRI3D18-1R8N	1.8	30	100 KHz	100 (80)	1.80	1.60	1.80
BRI3D18-2R2N	2.2	30	100 KHz	113 (90)	1.60	1.40	1.70
BRI3D18-2R7N	2.7	30	100 KHz	125 (100)	1.40	1.20	1.55
BRI3D18-3R3N	3.3	30	100 KHz	138 (110)	1.20	1.10	1.45
BRI3D18-3R9N	3.9	30	100 KHz	150 (120)	1.10	1.00	1.35
BRI3D18-4R7N	4.7	30	100 KHz	162 (130)	1.00	0.90	1.25
BRI3D18-5R6N	5.6	30	100 KHz	181 (145)	0.95	0.85	1.15
BRI3D18-6R8N	6.8	30	100 KHz	200 (160)	0.90	0.80	1.05
BRI3D18-8R2N	8.2	30	100 KHz	225 (180)	0.80	0.75	0.95
BRI3D18-100M	10.0	20	100 KHz	250 (200)	0.75	0.70	0.85
BRI3D18-120M	12.0	20	100 KHz	337 (270)	0.65	0.60	0.70
BRI3D18-150M	15.0	20	100 KHz	393 (315)	0.60	0.55	0.65
BRI3D18-180M	18.0	20	100 KHz	437 (350)	0.55	0.50	0.60
BRI3D18-220M	22.0	20	100 KHz	563 (450)	0.50	0.45	0.55
BRI3D18-270M	27.0	20	100 KHz	637 (510)	0.45	0.40	0.45
BRI3D18-330M	33.0	20	100 KHz	712 (570)	0.40	0.35	0.40
BRI3D18-390M	39.0	20	100 KHz	956 (765)	0.38	0.32	0.35
BRI3D18-470M	47.0	20	100 KHz	1100 (880)	0.32	0.28	0.30

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BRI SERIES

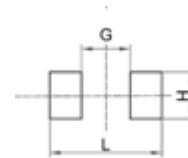
SHIELDED SMT POWER INDUCTOR

Applications :

- DSC, DVC , PDA products.
- Hand phone of new generation.
- Hard disk drives.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BRI4D12	4.6±0.3	1.3	1.2	3.2	0.7
BRI4D15	4.6±0.3	1.3	1.5	3.2	0.7

Item	G	H	L
BRI4D12	2.8	1.6	5.6
BRI4D15	2.8	1.6	5.6

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 30% lower than its initial value.(Ta=20°C).
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=40°C (Ta=20°C).
- Operating Temperature : -40°C to 105°C.

Product identification :

BRI4D12 - 470 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with DR core and **RI** core.

4D is 4.6mm square and **12** is about 1.2mm height.

(2) Inductance : **470** for **47.0** uH.

(4) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

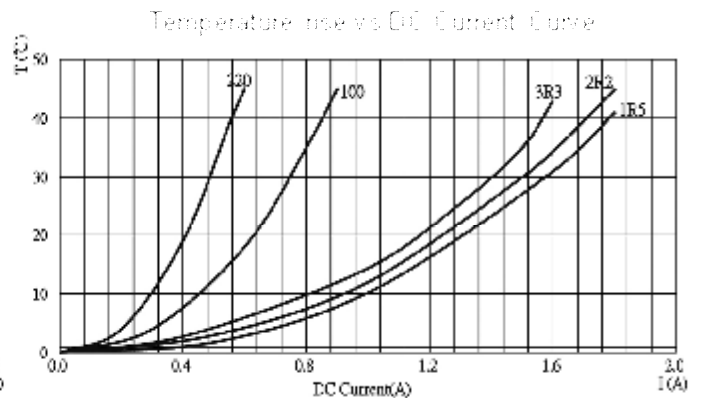
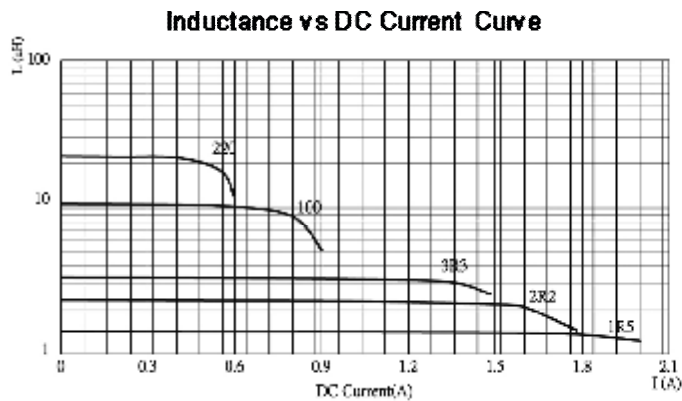
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● BRI 4D12 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI4D12-1R0N	1.0	30	100 KHz	75 (60)	2.10	1.90	1.70
BRI4D12-1R5N	1.5	30	100 KHz	89 (71)	1.80	1.60	1.60
BRI4D12-2R2N	2.2	30	100 KHz	106 (85)	1.40	1.20	1.50
BRI4D12-2R7N	2.7	30	100 KHz	125 (100)	1.30	1.10	1.40
BRI4D12-3R3N	3.3	30	100 KHz	150 (120)	1.20	1.00	1.30
BRI4D12-4R7N	4.7	30	100 KHz	196 (157)	1.10	0.95	1.20
BRI4D12-5R6N	5.6	30	100 KHz	256 (205)	1.00	0.80	1.05
BRI4D12-6R8N	6.8	30	100 KHz	312 (250)	0.90	0.75	1.00
BRI4D12-8R2N	8.2	30	100 KHz	362 (290)	0.80	0.65	0.90
BRI4D12-100M	10.0	20	100 KHz	450 (360)	0.70	0.60	0.80
BRI4D12-120M	12.0	20	100 KHz	500 (400)	0.65	0.55	0.75
BRI4D12-150M	15.0	20	100 KHz	700 (560)	0.60	0.50	0.70
BRI4D12-180M	18.0	20	100 KHz	775 (620)	0.50	0.40	0.60
BRI4D12-220M	22.0	20	100 KHz	1025 (820)	0.45	0.38	0.55
BRI4D12-270M	27.0	20	100 KHz	1162 (930)	0.40	0.35	0.50
BRI4D12-330M	33.0	20	100 KHz	1300 (1040)	0.38	0.32	0.45
BRI4D12-390M	39.0	20	100 KHz	1500 (1200)	0.35	0.30	0.43
BRI4D12-470M	47.0	20	100 KHz	1625 (1300)	0.32	0.28	0.40

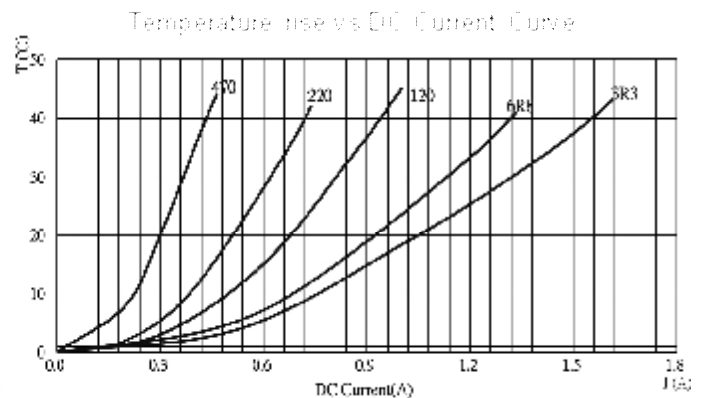
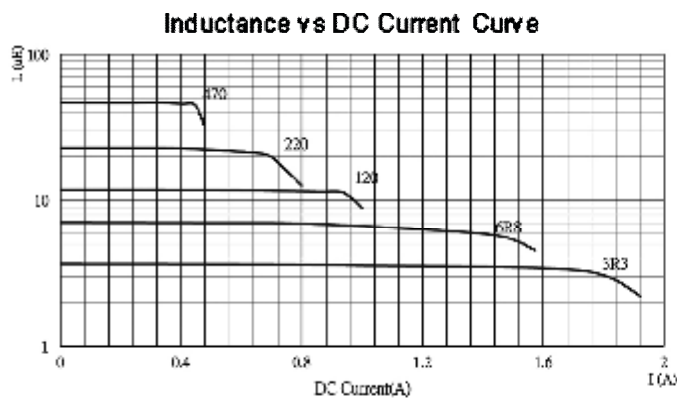
Typical performance curve



● BRI 4D15 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI4D15-1R0N	1.0	30	100 KHz	81 (65)	3.00	2.60	1.75
BRI4D15-1R2N	1.2	30	100 KHz	100 (80)	2.50	2.20	1.70
BRI4D15-1R8N	1.8	30	100 KHz	121 (97)	2.20	1.80	1.65
BRI4D15-2R7N	2.7	30	100 KHz	137 (110)	2.00	1.70	1.60
BRI4D15-3R3N	3.3	30	100 KHz	150 (120)	1.80	1.60	1.55
BRI4D15-3R9N	3.9	30	100 KHz	168 (135)	1.60	1.40	1.45
BRI4D15-4R7N	4.7	30	100 KHz	187 (150)	1.50	1.20	1.35
BRI4D15-5R6N	5.6	30	100 KHz	212 (170)	1.40	1.10	1.25
BRI4D15-6R8N	6.8	30	100 KHz	230 (185)	1.30	1.05	1.15
BRI4D15-8R2N	8.2	30	100 KHz	250 (200)	1.20	1.00	1.05
BRI4D15-100M	10.0	20	100 KHz	312 (250)	1.00	0.85	0.95
BRI4D15-120M	12.0	20	100 KHz	356 (285)	0.85	0.80	0.85
BRI4D15-150M	15.0	20	100 KHz	475 (380)	0.80	0.70	0.80
BRI4D15-180M	18.0	20	100 KHz	618 (495)	0.75	0.65	0.70
BRI4D15-220M	22.0	20	100 KHz	692 (554)	0.65	0.58	0.65
BRI4D15-270M	27.0	20	100 KHz	980 (785)	0.60	0.50	0.55
BRI4D15-330M	33.0	20	100 KHz	1068 (855)	0.55	0.45	0.50
BRI4D15-390M	39.0	20	100 KHz	1200 (960)	0.50	0.40	0.45
BRI4D15-470M	47.0	20	100 KHz	1710 (1370)	0.45	0.38	0.42

Typical performance curves :



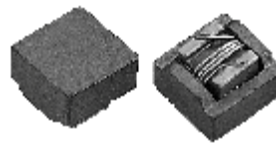
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SMDFSR1008PS SERIES

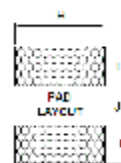
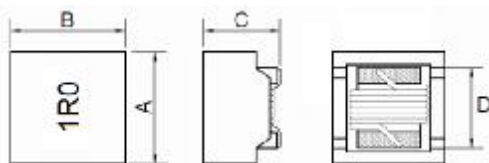
SHIELDED POWER CHIP INDUCTORS

Applications :

- Personal computers, HDDS.
- Communication Products.
- Other various electronic appliances



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
1008PS	3.81	3.81	2.94	2.54

Item	H	I	J
1008PS	2.54	1.02	1.27

Features :

- Miniature SMD power chip inductors.
- Economical alternative to large power inductors.
- Ideal for use at switching frequencies from 50kHz to 1 MHz.
- Magnetically shielded against radiation.

Product Identification :

SMD FS R 1008 PS - 1R0 M
 (1) (2) (3) (4) (5) (6) (7)

- (1) Type : **Surface Mount** Devices.
- (2) Material : **FS** : Ferrite with Sn/Ag wraparound.
- (3) Packaging **R** : Tape and Reel.
- (4) Dimension : **L**=0.1 Inch **W**=0.08 Inch.
- (5) **PS**: Shield Power inductors
- (6) Inductance : **1R0** for **1.0** uH.
- (7) Inductance tolerance : **K**:±10%;**M**:±20%.

Characteristics:

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temp: -40°C to 85°C .

Test equipments :

- L&Q: Agilent 4285A Precision LCR Meter.
- SRF: Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .

● SMDFSR1008PS series

Part No.	Inductanc L (uH)	Tole. (±%)	Q Typ.	Test Freq. (MHz) L&Q	SRF (MHz) Typ.	DCR (Ω) Max.	Rated Current (A)
SMDFSR1008PS-1R0□	1.0	10, 20	26	0.1&1	344	0.05	3.00
SMDFSR1008PS-1R5□	1.5	10, 20	26	0.1&1	260	0.08	2.80
SMDFSR1008PS-1R8□	1.8	10, 20	28	0.1&1	225	0.09	2.10
SMDFSR1008PS-2R7□	2.7	10, 20	30	0.1&1	185	0.14	1.50
SMDFSR1008PS-3R9□	3.9	10, 20	30	0.1&1	172	0.29	1.20
SMDFSR1008PS-4R7□	4.7	10, 20	30	0.1&1	157	0.35	1.10
SMDFSR1008PS-5R6□	5.6	10, 20	30	0.1&1	150	0.39	1.10
SMDFSR1008PS-6R8□	6.8	10, 20	30	0.1&1	110	0.58	0.90
SMDFSR1008PS-100□	10	10, 20	30	0.1&1	95	0.75	0.82
SMDFSR1008PS-150□	15	10, 20	30	0.1&1	75	1.15	0.70
SMDFSR1008PS-220□	22	10, 20	33	0.1&1	30	1.40	0.65
SMDFSR1008PS-330□	33	10, 20	33	0.1&1	21	1.61	0.52
SMDFSR1008PS-390□	39	10, 20	33	0.1&1	18	1.85	0.46
SMDFSR1008PS-470□	47	10, 20	33	0.1&1	15	2.20	0.43
SMDFSR1008PS-680□	68	10, 20	33	0.1&1	12	3.80	0.33
SMDFSR1008PS-820□	82	10, 20	33	0.1&1	10	4.30	0.32

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDR SERIES

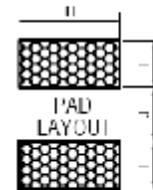
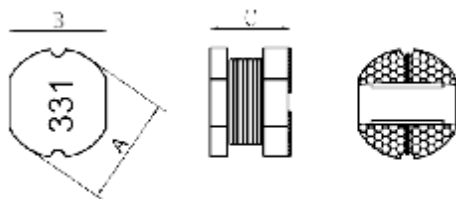
UNSHIELDED SMT POWER INDUCTORS

Applications :

- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C
SMTDR31	3.5±0.3	3.0±0.3	1.1±0.3
SMTDR32	3.5±0.3	3.0±0.3	2.0±0.3
SMTDR43	4.5±0.3	4.0±0.3	3.2±0.3
SMTDR52	5.8±0.3	5.2±0.3	2.5±0.3
SMTDR53	5.8±0.3	5.2±0.3	3.0±0.3
SMTDR54	5.8±0.3	5.2±0.3	4.5±0.35
SMTDR73	7.8±0.3	7.0±0.3	3.5±0.5
SMTDR75	7.8±0.3	7.0±0.3	5.0±0.5
SMTDR104	10.0±0.3	9.0±0.3	4.0±0.5
SMTDR105	10.0±0.3	9.0±0.3	5.4±0.4
SMTDR107	10.0±0.3	9.0±0.3	7.5 Max.

Item	H	I	J
SMTDR31	3.5	1.6	0.8
SMTDR32	3.5	1.6	0.8
SMTDR43	4.5	1.75	1.5
SMTDR52	5.5	2.15	1.7
SMTDR53	5.5	2.15	1.7
SMTDR54	5.5	2.15	1.7
SMTDR73	7.5	3.0	2.0
SMTDR75	7.5	3.0	2.0
SMTDR104	9.5	3.75	2.5
SMTDR105	9.5	3.75	2.5
SMTDR107	9.5	3.75	2.5

Features :

- Silver Plated Type, Low cost designed.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temperature : -30°C to 105°C .

Product identification :

SMT DR105 - 331 K

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : **DR** Core : **OD**=10mm, **HT**=5.4mm.

(3)Inductance : **331** for **330** uH.

(4)Inductance tolerance : "**M**": $\pm 20\%$; "**L**": $\pm 15\%$; "**K**": $\pm 10\%$

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .

● SMTDR31 series

Part No.	Inductance L (uH)	Test Freq. (0.1V)	DCR (Ω) Max.	Rated Current (A) Max.
SMTDR31-2R2M	2.2	100 KHz	0.24	1.20
SMTDR31-3R3M	3.3	100 KHz	0.27	1.08
SMTDR31-4R7M	4.7	100 KHz	0.30	1.00
SMTDR31-6R8M	6.8	100 KHz	0.47	0.80
SMTDR31-8R2M	8.2	100 KHz	0.52	0.76
SMTDR31-100M	10.0	100 KHz	0.55	0.70
SMTDR31-120M	12.0	100 KHz	0.75	0.60
SMTDR31-150M	15.0	100 KHz	0.91	0.50
SMTDR31-220M	22.0	100 KHz	1.20	0.40
SMTDR31-270M	27.0	100 KHz	1.50	0.36

● SMTDR series

Part No.	L (uH)	DC resistance (Ω) Max.					Rated current (Amp) Max.				
		DR32	DR43	DR52	DR53	DR54	DR32	DR43	DR52	DR53	DR54
1R0	1.0	0.045	0.0487		0.03		2.20	2.56		4.50	
1R2	1.2	0.050		0.050	0.03		2.10		4.20	4.20	
1R4	1.4		0.0562					2.52			
1R5	1.5	0.055		0.060	0.03		1.70		4.00	4.10	
1R8	1.8	0.070	0.0637	0.065	0.03		1.65	1.95	3.70	3.70	
2R2	2.2	0.085	0.0712	0.07	0.03		1.60	1.75	3.50	3.50	
2R7	2.7	0.100	0.0787	0.08	0.04		1.40	1.58	3.20	3.20	
3R3	3.3	0.120	0.0862	0.10	0.05		1.04	1.44	2.70	2.80	
3R9	3.9	0.125	0.0937	0.12	0.06		1.00	1.33	2.40	2.60	
4R7	4.7	0.135	0.1087	0.14	0.07		1.00	1.15	2.00	2.50	
5R6	5.6	0.145	0.1257	0.15	0.08		0.95	0.99	1.80	2.40	
6R8	6.8	0.20	0.1312	0.16	0.09		0.95	0.95	1.50	2.20	
8R2	8.2	0.25	0.1462	0.17	0.10		0.92	0.84	1.40	2.00	
100	10	0.32	0.182	0.20	0.13	0.10	0.90	1.04	1.30	1.80	1.44
120	12	0.35	0.210	0.23	0.16	0.12	0.85	0.97	1.10	1.75	1.40
150	15	0.46	0.235	0.25	0.19	0.14	0.75	0.85	1.05	1.70	1.30
180	18	0.52	0.338	0.30	0.21	0.15	0.70	0.74	1.00	1.60	1.23
220	22	0.65	0.378	0.35	0.28	0.18	0.60	0.68	0.90	1.50	1.11
270	27	0.75	0.522	0.40	0.32	0.20	0.55	0.62	0.85	1.40	0.97
330	33	0.92	0.540	0.50	0.38	0.23	0.50	0.56	0.75	1.10	0.88
390	39	1.12	0.587	0.55	0.42	0.32	0.48	0.52	0.70	1.00	0.80
470	47	1.27	0.844	0.65	0.52	0.37	0.45	0.44	0.60	0.90	0.72
560	56	1.50	0.937	0.75	0.56	0.42	0.30	0.42	0.55	0.85	0.68
680	68	2.00	1.117	0.95	0.68	0.46	0.26	0.37	0.50	0.80	0.61
820	82	2.15		1.20	0.82	0.60	0.23		0.45	0.65	0.58
101	100	2.80		1.40	1.10	0.70	0.20		0.40	0.60	0.52
121	120	3.40		1.75	1.20	0.93	0.18		0.35	0.58	0.48
151	150	4.20		2.00	1.50	1.10	0.16		0.25	0.43	0.40
181	180	4.50		2.60	1.80	1.38	0.15		0.22	0.41	0.38
221	220	5.70		3.00	2.00	1.57	0.14		0.20	0.38	0.35

● SMTDR series

Part No.	L (uH)	DC resistance (Ω) Max.					Rated current (Amp) Max.				
		DR32	DR43	DR52	DR53	DR54	DR32	DR43	DR52	DR53	DR54
271	270	8.50		3.70	2.90		0.10		0.18	0.35	
331	330	9.50		4.30	3.30		0.09		0.17	0.28	
391	390			6.00	3.70				0.16	0.260	
471	470			6.70	4.90				0.15	0.200	

Measuring Frequency :

1.0~8.2uH @ 7.96MHz 0.25V; 10~82uH @ 2.52MHz 0.25V; 100~470uH @ 1kHz 0.25V

Tolerance of Inductance :

SMTDR32 1.0~18uH (M) ± 20%; 22~330uH (K) ± 10%. SMTDR43 1.0~27uH (M) ± 20%; 33~68uH (K) ± 10%.

SMTDR52 1.2~18uH (M) ± 20%; 22~470uH (K) ± 10%. SMTDR53 1.0~18uH (M) ± 20%; 22~470uH (K) ± 10%.

SMTDR54 10~27uH (M) ± 20%; 33~220uH (K) ± 10%.

● SMTDR series

Part No.	L (uH)	DC resistance (Ω) Max.				Rated current (Amp) Max.			
		DR73	DR75	DR104	DR105	DR73	DR75	DR104	DR105
100	10	0.0803	0.07	0.053	0.06	1.44	2.30	2.38	2.60
120	12	0.0897	0.08	0.061	0.07	1.39	2.00	2.13	2.45
150	15	0.104	0.09	0.070	0.08	1.24	1.80	1.87	2.27
180	18	0.111	0.10	0.081	0.09	1.12	1.60	1.73	2.15
220	22	0.129	0.11	0.088	0.10	1.07	1.50	1.60	1.95
270	27	0.153	0.12	0.100	0.11	0.94	1.30	1.44	1.76
330	33	0.170	0.13	0.120	0.12	0.85	1.20	1.26	1.50
390	39	0.217	0.16	0.151	0.14	0.74	1.10	1.20	1.37
470	47	0.252	0.18	0.170	0.17	0.68	1.10	1.10	1.28
560	56	0.282	0.24	0.199	0.19	0.64	0.94	1.01	1.17
680	68	0.332	0.28	0.223	0.22	0.59	0.85	0.91	1.11
820	82	0.406	0.37	0.252	0.25	0.54	0.78	0.85	1.00
101	100	0.481	0.43	0.344	0.35	0.51	0.72	0.74	0.97
121	120	0.536	0.47	0.396	0.40	0.49	0.66	0.69	0.89
151	150	0.755	0.64	0.544	0.47	0.40	0.58	0.61	0.78
181	180	1.022	0.71	0.621	0.63	0.36	0.51	0.56	0.72
221	220	1.200	0.96	0.721	0.73	0.31	0.49	0.53	0.66
271	270	1.306	1.11	0.949	0.97	0.29	0.42	0.45	0.57
331	330	1.495	1.26	1.100	1.15	0.28	0.40	0.42	0.52
391	390		1.77	1.245	1.30		0.36	0.38	0.48
471	470		1.96	1.526	1.48		0.34	0.35	0.42
561	560			1.904	1.90			0.32	0.33
681	680				2.25				0.28
821	820				2.55				0.24

Measuring Frequency :

10~82uH @ 2.52MHz 0.25V; 100~330uH @ 1kHz 0.25V

Tolerance of Inductance :

SMTDR73 10~470uH (K) ± 10%; 56~330uH (K) ± 10%.

SMTDR75 10~470uH (K) ± 10%.

SMTDR104 10~47uH (M) ± 20%; 56~560uH (K) ± 10%.

SMTDR105 10~39uH (M) ± 20%; 47~820uH (K) ± 10%.

● SMTDR 107 series

Part No.	Inductance L (uH)	Test Freq. (0.25V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDR107-100M	10.0	2.52MHz	34	8.0	5.0
SMTDR107-120M	12.0	2.52MHz	37	7.5	4.0
SMTDR107-150M	15.0	2.52MHz	46	6.5	3.5
SMTDR107-180M	18.0	2.52MHz	52	6.2	3.2
SMTDR107-220M	22.0	2.52MHz	66	5.6	3.0
SMTDR107-270M	27.0	2.52 MHz	78	5.1	2.8
SMTDR107-330M	33.0	2.52MHz	89	4.7	2.7
SMTDR107-390M	39.0	2.52MHz	116	4.4	2.4
SMTDR107-470M	47.0	2.52MHz	124	3.9	2.2
SMTDR107-560M	56.0	2.52MHz	153	3.5	2.0
SMTDR107-680M	68.0	2.52 MHz	185	3.3	1.6
SMTDR107-820M	82.0	2.52MHz	207	3.0	1.5
SMTDR107-101K	100.0	1 KHz	272	2.7	1.45
SMTDR107-121K	120.0	1 KHz	299	2.5	1.4
SMTDR107-151K	150.0	1 KHz	381	2.3	1.3
SMTDR107-181K	180.0	1 KHz	431	2.1	1.25
SMTDR107-221K	220.0	1 KHz	549	1.8	1.1
SMTDR107-271K	270.0	1 KHz	621	1.7	1.05
SMTDR107-331K	330.0	1 KHz	815	1.5	0.9
SMTDR107-391K	390.0	1 KHz	906	1.4	0.85
SMTDR107-561K	560.0	1 KHz	1295	1.1	0.7
SMTDR107-681K	680.0	1 KHz	1662	1.0	0.61
SMTDR107-821K	820.0	1 KHz	1924	0.9	0.57

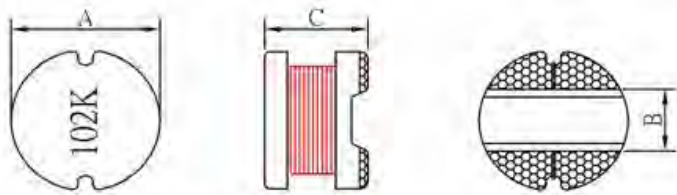
SMTDR137 SERIES

UNSHIELDED SMT POWER INDUCTORS

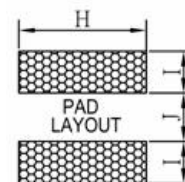
Applications :

- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.

Shape and Dimensions



Item	A	B	C
SMTDR137	13.0±0.5	4.5	7.0±0.3



Item	H	I	J
SMTDR137	14.0	4.75	4.5

Features :

- Silver Plated Type, Low cost design.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max $\Delta T=40^{\circ}\text{C}$. (Ta=20°C).
- Operating temperature : -30 °C to 105 °C.

Product Identification :

SMT DR137 - 471 K

(1) (2) (3) (4)

(1)Type : Surface Mountable Type .

(2)Style : DR Core : OD=13.0mm, HT=7.0mm.

(3)Inductance : 471 for 470 uH.

(4)Inductance tolerance : "M": ±20%; "L": ±15%; "K": ±10%

Test equipments :

- Inductance measured at 0Adc on an HP 4284A LCR meter or equivalent.
- DCR measured on a Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● SMTDR 137 series

Part No.	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDR137-1R5M	1.5	100 KHz	5.0	22.0	9.50
SMTDR137-2R2M	2.2	100 KHz	8.0	20.0	9.00
SMTDR137-2R7M	2.7	100 KHz	8.0	18.0	8.20
SMTDR137-3R3M	3.3	100 KHz	8.7	17.0	7.50
SMTDR137-4R7M	4.7	100 KHz	11.8	15.0	7.00
SMTDR137-5R6M	5.6	100 KHz	15.0	13.0	6.50
SMTDR137-6R8M	6.8	100 KHz	17.0	11.5	6.00
SMTDR137-8R2M	8.2	100 KHz	19.0	10.8	5.80
SMTDR137-100M	10.0	100 KHz	23.0	10.2	5.60
SMTDR137-120M	12.0	100 KHz	30.0	9.00	4.80
SMTDR137-150M	15.0	100 KHz	34.0	8.00	4.50
SMTDR137-180M	18.0	100 KHz	40.0	7.50	4.20
SMTDR137-220M	22.0	100 KHz	52.0	7.00	3.60
SMTDR137-270M	27.0	100 KHz	60.0	6.00	3.30
SMTDR137-330K	33.0	100 KHz	70.0	5.50	3.10
SMTDR137-390K	39.0	100 KHz	75.0	5.10	2.90
SMTDR137-470K	47.0	100 KHz	82.0	4.70	2.70
SMTDR137-560K	56.0	100 KHz	112.0	4.30	2.50
SMTDR137-680K	68.0	100 KHz	135.0	4.00	2.30
SMTDR137-820K	82.0	100 KHz	140.0	3.70	2.10
SMTDR137-101K	100.0	100 KHz	180.0	3.20	1.90
SMTDR137-121K	120.0	100 KHz	230.0	3.0	1.80
SMTDR137-151K	150.0	100 KHz	260.0	2.70	1.60
SMTDR137-181K	180.0	100 KHz	350.0	2.40	1.50
SMTDR137-221K	220.0	100 KHz	380.0	2.20	1.30
SMTDR137-271K	270.0	100 KHz	480.0	1.90	1.20
SMTDR137-331K	330.0	100 KHz	520.0	1.70	1.10
SMTDR137-391K	390.0	100 KHz	650.0	1.60	1.00
SMTDR137-471K	470.0	100 KHz	800.0	1.50	0.90
SMTDR137-561K	560.0	100 KHz	1100.0	1.30	0.85
SMTDR137-681K	680.0	100 KHz	1150.0	1.20	0.80
SMTDR137-821K	820.0	100 KHz	1600.0	1.10	0.75
SMTDR137-102K	1000.0	100 KHz	1700.0	1.00	0.65

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDR SERIES

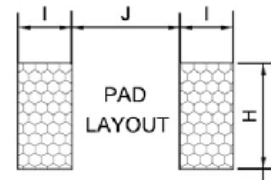
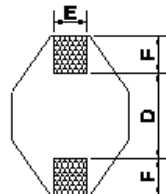
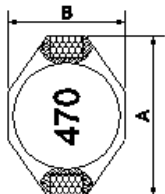
UNSHIELDED SMT POWER INDUCTORS

Applications :

- Portable telephones.
- Personable computers.
- DC/DC converters, etc.
- Other various electronic appliances.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
SMTDR0402	6.60	4.45	2.92	4.32
SMTDR0802	12.95	9.40	3.50	7.62
SMTDR0804	12.95	9.40	5.21	7.62
SMTDR0810	12.95	9.40	11.43	7.62
SMTDR1206	18.54	15.24	7.11	12.7

Item	E	F	H	I	J
SMTDR0402	1.27	1.02	3.56	1.4	4.06
SMTDR0802	2.54	2.54	2.79	2.92	7.37
SMTDR0804	2.54	2.54	2.79	2.92	7.37
SMTDR0810	2.54	2.54	2.79	2.92	7.37
SMTDR1206	2.54	2.54	2.79	2.92	12.45

Features :

- High power, High saturation, Low resistance.
- Ideal inductors for DC-DC conversion in notebook computer, PDAs, Step-up or step-down converters, flash memory programmers, etc.
- SMTDR0402 used ceramic base with gold-plating.
- The others used LCP plastic base.

Characteristics :

- Saturation Current (I_{sat}): The current when the inductance becomes 10% lower than its initial value. ($T_a=20^\circ\text{C}$)
- Temperature Rise Current (I_{rms}): The current when temperature of coil increases up to max. $\Delta T=40^\circ\text{C}$. ($T_a=20^\circ\text{C}$).
- Operating temperature : -40°C to 105°C .

Product identification :

SMT DR0804 - 470 M

(1) (2) (3) (4)

(1) Type : **Surface Mountable Type** .

(2) Style : **DR** Core **OD**=8.5mm **H**=4.0mm .

(3) Inductance : **470** for **47** uH.

(4) Inductance tolerance : **K** : $\pm 10\%$; **M** : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .

● SMTDR0402 series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDR0402 -1R0M	1.0	0.05	130	2.9	2.9
SMTDR0402 -1R5M	1.5	0.05	115	2.6	2.8
SMTDR0402 -2R2M	2.2	0.07	90	2.3	2.4
SMTDR0402 -3R3M	3.3	0.08	70	2.0	2.0
SMTDR0402 -4R7M	4.7	0.09	50	1.5	1.5
SMTDR0402 -6R8M	6.8	0.13	45	1.2	1.4
SMTDR0402 -100M	10	0.16	35	1.1	1.1
SMTDR0402 -150M	15	0.23	30	0.90	1.2
SMTDR0402 -220K	22	0.37	20	0.70	0.80
SMTDR0402 -330K	33	0.51	15	0.58	0.60
SMTDR0402 -470K	47	0.64	14	0.50	0.50
SMTDR0402 -680K	68	0.86	11	0.40	0.40
SMTDR0402 -101K	100	1.27	9.0	0.31	0.30
SMTDR0402 -151K	150	2.00	6.0	0.27	0.25
SMTDR0402 -221K	220	3.11	5.5	0.22	0.20
SMTDR0402 -331K	330	3.80	5.0	0.18	0.16
SMTDR0402 -471K	470	6.20	4.0	0.16	0.15
SMTDR0402 -681K	680	9.20	3.0	0.14	0.12
SMTDR0402 -102K	1000	13.8	2.0	0.10	0.07

● SMTDR0802 series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDR0802 -100M	10	0.11	35	2.4	2.0
SMTDR0802 -150M	15	0.15	33	2.0	1.5
SMTDR0802 -220M	22	0.23	25	1.6	1.3
SMTDR0802 -330M	33	0.30	19	1.4	1.1
SMTDR0802 -470M	47	0.39	14	1.0	0.80
SMTDR0802 -680M	68	0.66	12	0.90	0.70
SMTDR0802 -101M	100	0.84	10	0.70	0.60
SMTDR0802 -151M	150	1.2	8.0	0.60	0.50
SMTDR0802 -221M	220	1.9	6.0	0.50	0.40
SMTDR0802 -331M	330	2.7	5.0	0.40	0.30
SMTDR0802 -471M	470	4.0	4.0	0.30	0.20
SMTDR0802 -681M	680	5.3	3.0	0.20	0.10
SMTDR0802 -102M	1000	8.4	2.5	0.10	0.05

● SMTDR0804 series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDR0804 -1R0M	1.0	0.009	100	9.0	6.8
SMTDR0804 -1R5M	1.5	0.010	90	8.0	6.4
SMTDR0804 -2R2M	2.2	0.012	80	7.0	6.1
SMTDR0804 -3R3M	3.3	0.015	65	6.4	5.4
SMTDR0804 -4R7M	4.7	0.018	45	5.4	4.8
SMTDR0804 -6R8M	6.8	0.027	38	4.6	4.4
SMTDR0804 -100M	10	0.038	30	3.8	3.9
SMTDR0804 -150M	15	0.046	27	3.0	3.1
SMTDR0804 -220M	22	0.085	19	2.6	2.7
SMTDR0804 -330M	33	0.100	15	2.0	2.1
SMTDR0804 -470M	47	0.14	12	1.6	1.8
SMTDR0804 -680M	68	0.20	10	1.4	1.5
SMTDR0804 -101M	100	0.28	9.0	1.2	1.3
SMTDR0804 -501M	150	0.40	6.0	1.0	1.0
SMTDR0804 -221M	220	0.61	5.0	0.80	0.80
SMTDR0804 -331M	330	1.02	4.5	0.60	0.60
SMTDR0804 -471M	470	1.27	3.5	0.50	0.50
SMTDR0804 -681M	680	2.02	2.5	0.40	0.40
SMTDR0804 -102M	1000	3.00	2.0	0.30	0.30

● SMTDR0810 series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDR0810 -100M	10	0.04	22	8.0	3.5
SMTDR0810 -150M	15	0.05	18	7.0	3.0
SMTDR0810 -220M	22	0.066	11	5.5	2.5
SMTDR0810 -330M	33	0.08	9.0	4.0	2.0
SMTDR0810 -470M	47	0.11	8.0	3.8	1.6
SMTDR0810 -680M	68	0.17	7.0	3.0	1.2
SMTDR0810 -101M	100	0.22	5.0	2.5	1.2
SMTDR0810 -151M	150	0.34	4.0	2.0	0.90
SMTDR0810 -221M	220	0.44	3.5	1.6	0.70
SMTDR0810 -331M	330	0.70	2.5	1.2	0.60
SMTDR0810 -471M	470	0.95	2.0	1.0	0.30
SMTDR0810 -681M	680	1.2	2.0	1.0	0.20
SMTDR0810 -102M	1000	2.0	1.5	0.80	0.10

● SMTDR1206 series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDR1206 -1R0M	1.0	0.009	80	20	8.6
SMTDR1206 -2R2M	2.2	0.014	80	16	7.1
SMTDR1206 -3R3M	3.3	0.018	60	14	6.2
SMTDR1206 -5R6M	5.6	0.020	40	12	5.3
SMTDR1206 -100M	10	0.031	30	10	4.3
SMTDR1206 -150M	15	0.036	22	8.0	4.0
SMTDR1206 -220M	22	0.047	20	7.0	3.5
SMTDR1206 -330M	33	0.066	15	5.5	3.0
SMTDR1206 -470M	47	0.086	9.0	4.5	2.6
SMTDR1206 -680M	68	0.13	8.0	3.5	2.3
SMTDR1206-101M	100	0.19	7.0	3.0	1.8
SMTDR1206 -151M	150	0.25	6.0	2.6	1.5
SMTDR1206 -221M	220	0.38	5.0	2.4	1.2
SMTDR1206 -331M	330	0.56	4.0	1.9	1.0
SMTDR1206 -471M	470	0.85	3.0	1.4	0.82
SMTDR1206 -681M	680	1.1	2.5	1.2	0.72
SMTDR1206 -102M	1000	1.8	2.0	1.0	0.56

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDR SERIES

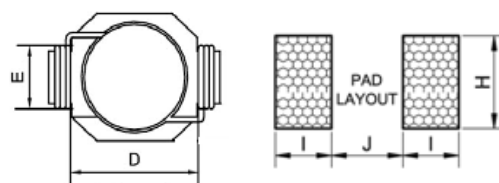
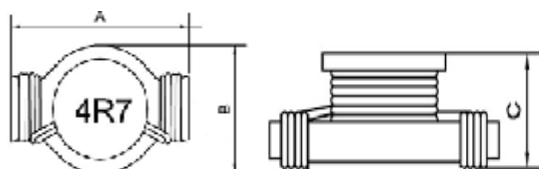
UNSHIELDED SMT POWER INDUCTORS

Applications :

- Personal computers.
- DC/DC converters, etc.
- LCD televisions.
- Power supply for VTRs.
- Other various electronic appliances.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
SMTDR0402HC	7.5	5.2	3.2
SMTDR0504HC	9.0	6.1	5.0
SMTDR0904HC	13.2	9.9	6.0
SMTDR1105HC	19.4	13.3	6.8
SMTDR1306HC	22.5	15.3	8.0

Item	D	E	H	I	J
SMTDR0402HC	4.6	2.5	4.0	2.0	4.0
SMTDR0504HC	5.8	3.0	5.0	2.0	5.0
SMTDR0904HC	9.5	4.5	6.5	2.3	9.0
SMTDR1105HC	12.7	6.6	8.0	3.8	11.7
SMTDR1306HC	14.6	7.7	10.0	4.3	13.5

Features :

- Miniature surface mount designed.
- High power , High saturation inductors.
- Very low resistance .
- Maximum power density.
- Ideal inductors for DC-DC conversion .
- Meets UL 94V-0 flammability standard .
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 30% (0402HC is 10%) lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temp. : -30°C to 105°C

Product identification :

SMT DR1105 HC - 4R7 M

(1) (2) (3) (4) (5)

(1)Type : **Surface Mountable Type**.

(2)Style : **DR** Core : **OD**=11.0mm **HT**=5.0mm.

(3)HC : **High Current**.

(4)Inductance : **4R7** for **4.7** uH.

(5)Inductance tolerance : **M** : $\pm 20\%$. **N**:+40% -20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .



● SMTDR series

Part No.	Inductance L (μH)	DCR Max. (mΩ)	I rms (A)	I sat (A)
		DR0402HC	DR0402HC	DR0402HC
R47N	0.47	25	6.0	3.7
1R0M	1.0	50	2.9	2.9
1R5M	1.5	50	2.8	2.6
2R2M	2.2	70	2.4	2.3
3R3M	3.3	80	2.0	2.0
4R7M	4.7	90	1.5	1.5
6R8M	6.8	130	1.4	1.2
100M	10	160	1.1	1.1
150M	15	230	1.0	0.9
220M	22	370	0.8	0.7

Part No.	L	0504HC	0904HC	0504HC	0904HC	0504HC	0904HC
R47N	0.47	10.0	5	6.0	10.6	7.7	11.4
1R0N	1.0	18	7	4.4	9.3	5.3	9.9
1R5N	1.5	20	9	4.2	8.3	4.5	7.9
2R2M	2.2	37	11	3.1	7.2	3.5	6.1
3R3M	3.3	43	13	2.9	6.5	3.0	5.1
4R7M	4.7	55	17	2.2	5.5	2.6	4.2
6R8M	6.8	90	21	1.7	5.0	2.2	3.6
100M	10	111	28	1.5	4.3	1.9	3.3
150M	15	175	41	1.2	3.5	1.5	2.4
220M	22	255	62	1.0	2.8	1.2	2.0
330M	33	367	92	0.82	2.1	0.99	1.7
470M	47	474	139	0.72	1.7	0.87	1.4
680M	68	750	179	0.58	1.5	0.67	1.2
101M	100	1110	271	0.47	1.2	0.53	0.95

Part No.	L	1105HC	1306HC	1105HC	1306HC	1105HC	1306HC
R47N	0.47	3.0	2	16.0	19.2	25.1	51.7
1R0N	1.0	4.0	3	12.5	17.3	15.3	37.8
1R5N	1.5	6.0	4	10.0	13.4	12.0	28.9
2R2M	2.2	8.0	5	9.2	12.0	10.2	23.7
3R3M	3.3	9.0	6	8.0	11.0	9.3	20.2
4R7M	4.7	12	10	6.5	8.6	7.7	15.6
6R8M	6.8	19	15	5.8	8.3	6.2	14.1
100M	10	27	20	4.3	6.8	5.2	11.5
150M	15	32	30	3.9	5.5	4.3	9.1
220M	22	50	40	3.1	4.5	3.7	7.6
330M	33	69	60	2.4	3.7	3.0	6.1
470M	47	109	74	1.9	3.1	2.4	5.2
680M	68	156	120	1.6	2.4	2.0	4.3
101M	100	206	170	1.4	2.0	1.8	3.6

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRH SERIES

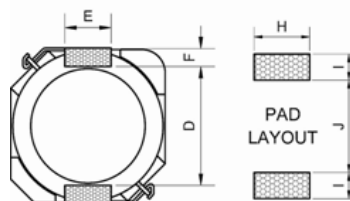
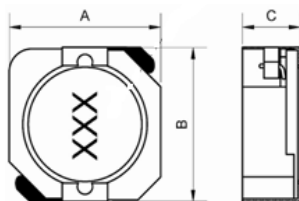
SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs .
- LCD televisions .
- Notebook PCs .
- Portable communication equipment .
- DC/DC converters,etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
DRH5D28R	6.2	6.3	3.0
DRH103R	10.3	10.4	3.0
DRH104R	10.3	10.4	4.0
DRH105R	10.3	10.4	5.0

Item	D	E	F	H	I	J
DRH5D28R	4.7	2.0	0.6	2.6	1.0	4.6
DRH103R	7.7	3.0	1.2	3.6	1.7	7.3
DRH104R	7.7	3.0	1.2	3.6	1.7	7.3
DRH105R	7.7	3.0	1.2	3.6	1.7	7.3

Features :

- Directly connected electrode on ferrite core.
- Ideal inductors for DC-DC conversion.
- High power, High saturation inductors .
- With magnetic shield against radiation .
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 30% (0402HC is 10%) lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max.
 $\Delta T=40^{\circ}\text{C}$ (Ta=20°C)
- Operating temp. : -30°C to 105°C.

Product identification :

SMT DRH104R - 470 N

(1) (2) (3) (4)

- (1) Type : **Surface Mountable Type.**
- (2) Style : **DR** Core with **RI** shield , **104R** is size.
- (3) Inductance : Example : **470** for **47** uH.
- (4) Inductance tolerance : **N** : $\pm 30\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● SMTDRH series

Part No.	Induc L (μH)	DC Resistance (mΩ)Max.				I _{rms} (A) Max.				I _{sat} (A) Max.			
		5D28R	103R	104R	105R	5D28R	103R	104R	105R	5D28R	103R	104R	105R
R80N	0.8		5.7		4.3		6.50		7.50		9.00		12.0
1R5N	1.5		11.0	8.1	5.8		4.20	6.50	7.00		7.00	10.0	9.00
2R2N	2.2		16.9		7.2		4.05		6.30		5.80		7.50
2R5N	2.5	17.6		10		2.60		6.10		2.60		7.50	
3R3N	3.3	20.3	21.0		10.4	2.30	3.80		5.75	2.30	4.60		6.00
3R8N	3.8			13				5.50				6.00	
4R0N	4.0	27.0				2.10				2.10			
4R7N	4.7		30.0		12.3		3.30		4.75		4.00		5.20
5R0N	5.0	31.1				1.85				1.85			
5R2N	5.2			22				5.40				5.50	
6R0N	6.0	41.9				1.70				1.70			
6R8N	6.8		35.0		18.0		3.15		4.10		3.20		4.20
7R0N	7.0			27				4.50				4.80	
8R0N	8.0	49.9				1.50				1.50			
8R2N	8.2		50.0		20.0		2.50		4.00		3.00		3.80
100N	10	54.0	58.1	35	25.8	1.30	2.40	3.80	3.75	1.30	2.70	4.40	3.45
120N	12	71.6	72.1		32.0	1.20	2.10		3.00	1.20	2.40		3.40
150N	15	82.4	86.5	50	40.0	1.10	2.05	3.10	2.65	1.10	2.20	3.60	2.83
180N	18	101.5	116.1		46.0	1.05	1.50		2.20	1.05	2.00		2.62
220N	22	119.0	143.0	73	58.5	0.95	1.20	2.50	1.80	0.95	1.80	2.90	2.44
270N	27	146.0	175.9		65.4	0.85	1.15		1.70	0.85	1.65		2.24
330N	33	182.5	202.0	93	81.4	0.76	1.10	2.20	1.65	0.76	1.48	2.30	1.88
390N	39	209.5	268.9		103.1	0.68	1.00		1.60	0.68	1.35		1.70
470N	47	229.5	299.0	128	122.1	0.60	0.90	1.90	1.50	0.60	1.20	2.10	1.56
560N	56	305.0	325.0		144.8	0.55	0.78		1.45	0.55	1.15		1.39
680N	68	351.0	429.0	213	193.0	0.48	0.68	1.42	1.20	0.48	1.05	1.50	1.36
820N	82	418.5	494.0		219.4	0.45	0.63		0.95	0.45	0.95		1.20
101N	100	520.0	683.0	304	247.0	0.40	0.56	1.25	0.90	0.40	0.85	1.35	1.09
121N	120		754.0		298.4		0.53		0.85		0.76		1.00
151N	150		871.0	506	355.1		0.51	0.85	0.80		0.70	1.15	0.91
181N	180				393.4				0.75				0.84
221N	220			756	483.8			0.70	0.70			0.92	0.75
271N	270				632.5				0.60				0.68
331N	330			1090	780.0			0.52	0.50			0.70	0.60
391N	390				957.5				0.45				0.57
471N	470				1220.4				0.42				0.50
561N	560				1352.4				0.39				0.47
681N	680				1519.2				0.36				0.43
821N	820				1694.4				0.34				0.39
102N	1000				1946.4				0.32				0.35

Notes:

Measuring Frequency : 100kHz 0.1V.

Tolerance of Inductance : N : ± 30%.

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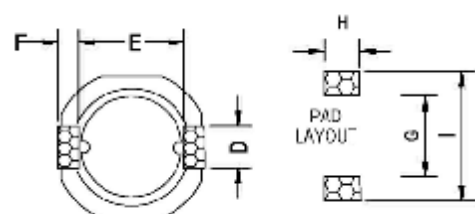
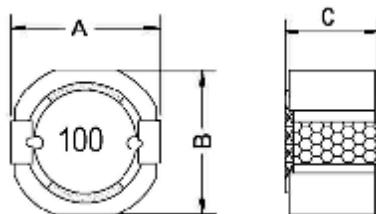
SMTDRH0520 ~0635 SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters, etc.

Shape and Dimensions: (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
SMTDRH0520	5.2	5.2	2.0
SMTDRH0530	5.2	5.2	3.0
SMTDRH0530L	5.2	5.2	3.0
SMTDRH0630	6.3	6.2	3.0
SMTDRH0635	6.3	6.2	3.5

Item	D	E	F	G	H	I
SMTDRH0520	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0530	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0530L	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0630	2.0	4.8	0.6	4.6	2.6	6.6
SMTDRH0635	2.0	4.8	0.6	4.6	2.6	6.6

Features :

- Low profile, SMTDRH0520 2.0mm max. height.
SMTDRH0530 3.0mm max. height.
SMTDRH0630 3.0mm max height
SMTDRH0635 3.5mm max height
- Magnetically shielded and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max ΔT=40°C (Ta=20°C).
- Operating temperature : -20°C to 85°C.

Product identification :

SMT **DRH0530** **L-** **470** **M**
(1) (2) (3) (4) (5)

- (1) Type: **Surface Mountable Type**.
(2) Style: **DR** Core with **RI** Shield, **0530** is size.
(3) No **L**: general type ; **L**: low DCR type.
(4) Inductance: **470** for **47.0** uH.
(5) Inductance tolerance: **M**: ± 20%.

Test equipments :

- L tested by Agilent 4284A LCR meter @ 100KHz 0.1V.
- DCR tested by Milli-ohm meter.
- Used frequency rang : 0.1~1MHz.
- Electrical specifications at 25°C.

● SMTDRH05 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0520-1R2M	1R2	1.2	100 KHz	45	2.15	2.29
SMTDRH0520-2R2M	2R2	2.2	100 KHz	59	1.63	1.64
SMTDRH0520-3R5M	3R5	3.5	100 KHz	73	1.34	1.45
SMTDRH0520-4R7M	4R7	4.7	100 KHz	86	1.14	1.22
SMTDRH0520-6R8M	6R8	6.8	100 KHz	101	0.95	1.10
SMTDRH0520-100M	100	10.0	100 KHz	150	0.76	0.87
SMTDRH0520-150M	150	15.0	100 KHz	210	0.63	0.72
SMTDRH0520-220M	220	22.0	100 KHz	276	0.56	0.56
SMTDRH0520-330M	330	33.0	100 KHz	450	0.44	0.48
SMTDRH0520-470M	470	47.0	100 KHz	726	0.36	0.35
SMTDRH0520-680M	680	68.0	100 KHz	936	0.30	0.33
SMTDRH0520-101M	101	100	100 KHz	1500	0.23	0.24

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0530-1R1M	1R1	1.1	100 KHz	20	3.87	3.25
SMTDRH0530-2R0M	2R0	2.0	100 KHz	27	2.92	2.64
SMTDRH0530-3R3M	3R3	3.3	100 KHz	45	2.36	2.26
SMTDRH0530-4R7M	4R7	4.7	100 KHz	46	1.87	2.01
SMTDRH0530-6R8M	6R8	6.8	100 KHz	69	1.51	1.65
SMTDRH0530-100M	100	10.0	100 KHz	90	1.33	1.41
SMTDRH0530-150M	150	15.0	100 KHz	142	1.05	1.10
SMTDRH0530-220M	220	22.0	100 KHz	208	0.86	0.81
SMTDRH0530-330M	330	33.0	100 KHz	330	0.72	0.75
SMTDRH0530-470M	470	47.0	100 KHz	352	0.62	0.64
SMTDRH0530-680M	680	68.0	100 KHz	525	0.51	0.52
SMTDRH0530-101M	101	100.0	100 KHz	801	0.43	0.44

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0530L-4R7M	4R7	4.7	100 KHz	38	1.13	2.18
SMTDRH0530L-6R8M	6R8	6.8	100 KHz	51	0.99	1.81
SMTDRH0530L-100M	100	10.0	100 KHz	68	0.74	1.50
SMTDRH0530L-150M	150	15.0	100 KHz	98	0.58	1.28
SMTDRH0530L-220M	220	22.0	100 KHz	135	0.51	1.12
SMTDRH0530L-330M	330	33.0	100 KHz	207	0.41	0.88
SMTDRH0530L-470M	470	47.0	100 KHz	269	0.34	0.75
SMTDRH0530L-680M	680	68.0	100 KHz	401	0.29	0.64
SMTDRH0530L-101M	101	100	100 KHz	569	0.26	0.51
SMTDRH0530L-151M	151	150	100 KHz	942	0.21	0.38
SMTDRH0530L-221M	221	220	100 KHz	1343	0.18	0.33

● SMTDRH06 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0630-1R0M	1R0	1.0	100 KHz	13.2	3.59	4.03
SMTDRH0630-1R5M	1R5	1.5	100 KHz	15.6	2.93	3.63
SMTDRH0630-2R2M	2R2	2.2	100 KHz	19.2	2.42	3.30
SMTDRH0630-3R6M	3R6	3.6	100 KHz	25.2	1.89	2.83
SMTDRH0630-4R7M	4R7	4.7	100 KHz	32.4	1.66	2.45
SMTDRH0630-6R2M	6R2	6.2	100 KHz	38.4	1.45	2.20
SMTDRH0630-100M	100	10.0	100 KHz	58.8	1.14	1.77
SMTDRH0630-120M	120	12.0	100 KHz	73.0	1.04	1.70
SMTDRH0630-150M	150	15.0	100 KHz	74.4	0.93	1.55
SMTDRH0630-180M	180	18.0	100 KHz	110.0	0.85	1.41
SMTDRH0630-220M	220	22.0	100 KHz	114.0	0.77	1.23
SMTDRH0630-270M	270	27.0	100 KHz	144.0	0.70	1.08
SMTDRH0630-330M	330	33.0	100 KHz	168.0	0.63	0.99
SMTDRH0630-390M	390	39.0	100 KHz	180.0	0.58	0.95
SMTDRH0630-470M	470	47.0	100 KHz	222.0	0.53	0.84
SMTDRH0630-560M	560	56.0	100 KHz	264.0	0.48	0.76
SMTDRH0630-680M	680	68.0	100 KHz	324.0	0.44	0.69
SMTDRH0630-820M	820	82.0	100 KHz	396.0	0.40	0.61
SMTDRH0630-101M	101	100	100 KHz	498.0	0.36	0.54
SMTDRH0630-151M	151	150	100 KHz	738.0	0.31	0.42

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0635-2R0M	2R0	2.0	100 KHz	19.2	3.00	3.31
SMTDRH0635-2R7M	2R7	2.7	100 KHz	21.9	2.69	3.12
SMTDRH0635-3R3M	3R3	3.3	100 KHz	25.6	2.57	2.81
SMTDRH0635-4R7M	4R7	4.7	100 KHz	31.6	2.08	2.51
SMTDRH0635-6R2M	6R2	6.2	100 KHz	34.9	1.84	2.41
SMTDRH0635-8R2M	8R2	8.2	100 KHz	43.4	1.54	2.11
SMTDRH0635-100M	100	10.0	100 KHz	50.8	1.49	1.97
SMTDRH0635-120M	120	12.0	100 KHz	62.0	1.28	1.73
SMTDRH0635-150M	150	15.0	100 KHz	76.9	1.10	1.54
SMTDRH0635-180M	180	18.0	100 KHz	95.0	1.05	1.52
SMTDRH0635-220M	220	22.0	100 KHz	127.2	0.97	1.29
SMTDRH0630-270M	270	27.0	100 KHz	140.1	0.82	1.11
SMTDRH0635-330M	330	33.0	100 KHz	162.0	0.76	1.02
SMTDRH0635-390M	390	39.0	100 KHz	190.8	0.70	0.96
SMTDRH0635-470M	470	47.0	100 KHz	208.8	0.68	0.89
SMTDRH0635-560M	560	56.0	100 KHz	256.8	0.60	0.80
SMTDRH0635-680M	680	68.0	100 KHz	319.2	0.56	0.71
SMTDRH0635-820M	820	82.0	100 KHz	418.8	0.47	0.61
SMTDRH0635-101M	101	100	100 KHz	476.4	0.45	0.57
SMTDRH0635-151M	151	150	100 KHz	639.6	0.37	0.48

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



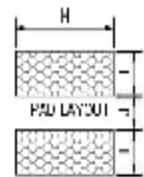
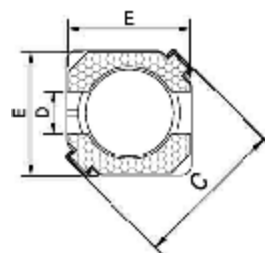
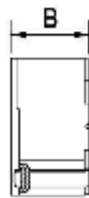
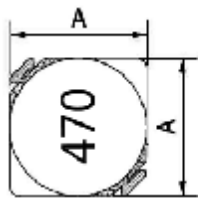
SMTDRRI4D&5D&6D SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters, etc.

Shape and Dimensions: (Dimensions are in mm)



Item	A Max.	B Max.	C Max.	Item	D	E	H	I	J
SMTDRRI4D18	4.7+/-0.3	2.0	6.9	SMTDRRI4D18	1.5	4.5	5.3	1.9	1.5
SMTDRRI4D28	4.7+/-0.3	3.0	6.9	SMTDRRI4D28	1.5	4.5	5.3	1.9	1.5
SMTDRRI5D18	5.7+/-0.3	2.0	8.2	SMTDRRI5D18	2.0	5.5	6.3	2.15	2.0
SMTDRRI5D28	5.7+/-0.3	3.0	8.2	SMTDRRI5D28	2.0	5.5	6.3	2.15	2.0
SMTDRRI6D28	6.7+/-0.3	3.0	9.5	SMTDRRI6D28	2.0	6.5	7.3	2.6	2.0
SMTDRRI6D38	6.7+/-0.3	4.0	9.5	SMTDRRI6D38	2.0	6.5	7.3	2.5	2.0

Features :

- Small size with the electrode attached to the ferrite core directly.
- Available in magnetically shielded.
- Low DC resistance.
- Suitable for high current.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 35% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max $\Delta T=40^{\circ}\text{C}$. (Ta=20°C).
- Operating temperature : -30°C to 105°C.

Product identification :

SMT DRRI5D28 - 220 N

(1) (2) (3) (4)

(1) Type : **Surface Mountable Type.**

(2) Style : **DR Core with RI core.**

5D is 5.7mm square and **28** is about 2.8mm height.

(3) Inductance : **220** for **22** uH.

(4) Inductance tolerance : **N** : $\pm 30\%$.

Test equipments :

- L tested by Agilent 4284A Precision LCR meter.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C.



● SMTDRRI4D18 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI4D18-1R0N	1R0	1.0	100 KHz	45	1.72	1.72
SMTDRRI4D18-2R2N	2R2	2.2	100 KHz	75	1.32	1.32
SMTDRRI4D18-2R7N	2R7	2.7	100 KHz	105	1.28	1.28
SMTDRRI4D18-3R3N	3R3	3.3	100 KHz	110	1.04	1.04
SMTDRRI4D18-3R9N	3R9	3.9	100 KHz	155	0.88	0.88
SMTDRRI4D18-4R7N	4R7	4.7	100 KHz	162	0.84	0.84
SMTDRRI4D18-5R6N	5R6	5.6	100 KHz	170	0.80	0.80
SMTDRRI4D18-6R8N	6R8	6.8	100 KHz	200	0.76	0.76
SMTDRRI4D18-8R2N	8R2	8.2	100 KHz	245	0.68	0.68
SMTDRRI4D18-100N	100	10	100 KHz	200	0.61	0.61
SMTDRRI4D18-120N	120	12	100 KHz	210	0.56	0.56
SMTDRRI4D18-150N	150	15	100 KHz	240	0.50	0.50
SMTDRRI4D18-180N	180	18	100 KHz	338	0.48	0.48
SMTDRRI4D18-220N	220	22	100 KHz	397	0.41	0.41
SMTDRRI4D18-270N	270	27	100 KHz	441	0.35	0.35
SMTDRRI4D18-330N	330	33	100 KHz	694	0.32	0.32
SMTDRRI4D18-390N	390	39	100 KHz	709	0.30	0.30

● SMTDRRI4D28 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI4D28-1R2N	1R2	1.2	100 KHz	23.6	2.56	2.56
SMTDRRI4D28-1R8N	1R8	1.8	100 KHz	27.5	2.20	2.20
SMTDRRI4D28-2R2N	2R2	2.2	100 KHz	31.3	2.04	2.04
SMTDRRI4D28-2R7N	2R7	2.7	100 KHz	43.3	1.60	1.60
SMTDRRI4D28-3R3N	3R3	3.3	100 KHz	49.2	1.57	1.57
SMTDRRI4D28-3R9N	3R9	3.9	100 KHz	64.8	1.44	1.44
SMTDRRI4D28-4R7N	4R7	4.7	100 KHz	72	1.32	1.32
SMTDRRI4D28-5R6N	5R6	5.6	100 KHz	100.9	1.17	1.17
SMTDRRI4D28-6R8N	6R8	6.8	100 KHz	108.9	1.12	1.12
SMTDRRI4D28-8R2N	8R2	8.2	100 KHz	117.5	1.04	1.04
SMTDRRI4D28-100N	100	10	100 KHz	128.3	1.00	1.00
SMTDRRI4D28-120N	120	12	100 KHz	131.6	0.84	0.84
SMTDRRI4D28-150N	150	15	100 KHz	149.0	0.76	0.76
SMTDRRI4D28-180N	180	18	100 KHz	166.0	0.72	0.72
SMTDRRI4D28-220N	220	22	100 KHz	235.0	0.70	0.70
SMTDRRI4D28-270N	270	27	100 KHz	261.0	0.58	0.58
SMTDRRI4D28-330N	330	33	100 KHz	378.0	0.56	0.56
SMTDRRI4D28-390N	390	39	100 KHz	383.7	0.50	0.50
SMTDRRI4D28-470N	470	47	100 KHz	587.0	0.48	0.48
SMTDRRI4D28-560N	560	56	100 KHz	624.5	0.41	0.41
SMTDRRI4D28-680N	680	68	100 KHz	699.0	0.35	0.35
SMTDRRI4D28-820N	820	82	100 KHz	914.8	0.32	0.32
SMTDRRI4D28-101N	101	100	100 KHz	1020	0.29	0.29
SMTDRRI4D28-121N	121	120	100 KHz	1270	0.27	0.27
SMTDRRI4D28-151N	151	150	100 KHz	1350	0.24	0.24
SMTDRRI4D28-181N	181	180	100 KHz	1540	0.22	0.22

● SMTDRRI5D18 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI5D18-4R1N	4R1	4.1	10 KHz	57	1.95	1.95
SMTDRRI5D18-5R4N	5R4	5.4	10KHz	76	1.60	1.60
SMTDRRI5D18-6R2N	6R2	6.2	10 KHz	96	1.40	1.40
SMTDRRI5D18-8R9N	8R9	8.9	10 KHz	116	1.25	1.25
SMTDRRI5D18-100N	100	10.0	10 KHz	124	1.20	1.20
SMTDRRI5D18-120N	120	12.0	10 KHz	153	1.10	1.10
SMTDRRI5D18-150N	150	15.0	10 KHz	196	0.97	0.97
SMTDRRI5D18-180N	180	18.0	10 KHz	210	0.85	0.85
SMTDRRI5D18-220N	220	22.0	10 KHz	290	0.80	0.80
SMTDRRI5D18-270N	270	27.0	10 KHz	330	0.75	0.75
SMTDRRI5D18-330N	330	33.0	10 KHz	386	0.65	0.65
SMTDRRI5D18-390N	390	39.0	10 KHz	520	0.57	0.57
SMTDRRI5D18-470N	470	47.0	10 KHz	595	0.54	0.54
SMTDRRI5D18-560N	560	56.0	10 KHz	665	0.50	0.50
SMTDRRI5D18-680N	680	68.0	10 KHz	840	0.43	0.43
SMTDRRI5D18-820N	820	82.0	10 KHz	978	0.41	0.41
SMTDRRI5D18-101N	101	100	10 KHz	1200	0.36	0.36

● SMTDRRI5D28 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI5D28-2R6N	2R6	2.6	10 KHz	18	2.60	2.60
SMTDRRI5D28-3R0N	3R0	3.0	10 KHz	24	2.40	2.40
SMTDRRI5D28-4R2N	4R2	4.2	10 KHz	31	2.20	2.20
SMTDRRI5D28-5R3N	5R3	5.3	10 KHz	38	1.90	1.90
SMTDRRI5D28-6R2N	6R2	6.2	10 KHz	45	1.80	1.80
SMTDRRI5D28-8R2N	8R2	8.2	10 KHz	53	1.60	1.60
SMTDRRI5D28-100N	100	10.0	10 KHz	65	1.30	1.30
SMTDRRI5D28-120N	120	12.0	10 KHz	76	1.20	1.20
SMTDRRI5D28-150N	150	15.0	10 KHz	103	1.10	1.10
SMTDRRI5D28-180N	180	18.0	10 KHz	110	1.00	1.00
SMTDRRI5D28-220N	220	22.0	10 KHz	122	0.90	0.90
SMTDRRI5D28-270N	270	27.0	10 KHz	175	0.85	0.85
SMTDRRI5D28-330N	330	33.0	10 KHz	189	0.75	0.75
SMTDRRI5D28-390N	390	39.0	10 KHz	212	0.70	0.70
SMTDRRI5D28-470N	470	47.0	10 KHz	260	0.62	0.62
SMTDRRI5D28-560N	560	56.0	10 KHz	305	0.58	0.58
SMTDRRI5D28-680N	680	68.0	10 KHz	355	0.52	0.52
SMTDRRI5D28-101N	101	100.0	10 KHz	520	0.42	0.42

● SMTDRRI6D28 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI6D28-3R0N	3R0	3.0	10 KHz	24	3.00	3.00
SMTDRRI6D28-3R9N	3R9	3.9	10 KHz	27	2.60	2.60
SMTDRRI6D28-5R0N	5R0	5.0	10 KHz	31	2.40	2.40
SMTDRRI6D28-6R0N	6R0	6.0	10 KHz	35	2.25	2.25
SMTDRRI6D28-7R3N	7R3	7.3	10 KHz	54	2.10	2.10
SMTDRRI6D28-8R6N	8R6	8.6	10 KHz	58	1.85	1.85
SMTDRRI6D28-100N	100	10.0	10 KHz	65	1.70	1.70
SMTDRRI6D28-120N	120	12.0	10 KHz	70	1.55	1.55
SMTDRRI6D28-150N	150	15.0	10 KHz	84	1.40	1.40
SMTDRRI6D28-180N	180	18.0	10 KHz	95	1.32	1.32
SMTDRRI6D28-220N	220	22.0	10 KHz	128	1.20	1.20
SMTDRRI6D28-270N	270	27.0	10 KHz	142	1.05	1.05
SMTDRRI6D28-330N	330	33.0	10 KHz	165	0.97	0.97
SMTDRRI6D28-390N	390	39.0	10 KHz	210	0.86	0.86
SMTDRRI6D28-470N	470	47.0	10 KHz	238	0.80	0.80
SMTDRRI6D28-560N	560	56.0	10 KHz	277	0.73	0.73
SMTDRRI6D28-680N	680	68.0	10 KHz	304	0.65	0.65
SMTDRRI6D28-820N	820	82.0	10 KHz	390	0.60	0.60
SMTDRRI6D28-101N	101	100	10 KHz	535	0.54	0.54

● SMTDRRI6D38 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI6D38-3R3N	3R3	3.3	10 KHz	20	3.50	3.50
SMTDRRI6D38-5R0N	5R0	5.0	10 KHz	24	2.90	2.90
SMTDRRI6D38-6R2N	6R2	6.2	10 KHz	27	2.40	2.40
SMTDRRI6D38-7R4N	7R4	7.4	10 KHz	31	2.30	2.30
SMTDRRI6D38-8R7N	8R7	8.7	10 KHz	34	2.20	2.20
SMTDRRI6D38-100N	100	10.0	10 KHz	38	2.00	2.00
SMTDRRI6D38-120N	120	12.0	10 KHz	53	1.70	1.70
SMTDRRI6D38-150N	150	15.0	10 KHz	57	1.60	1.60
SMTDRRI6D38-180N	180	18.0	10 KHz	92	1.50	1.50
SMTDRRI6D38-220N	220	22.0	10 KHz	96	1.30	1.30
SMTDRRI6D38-270N	270	27.0	10 KHz	109	1.20	1.20
SMTDRRI6D38-330N	330	33.0	10 KHz	124	1.10	1.10
SMTDRRI6D38-390N	390	39.0	10 KHz	138	1.00	1.00
SMTDRRI6D38-470N	470	47.0	10 KHz	155	0.95	0.95
SMTDRRI6D38-560N	560	56.0	10 KHz	202	0.85	0.85
SMTDRRI6D38-680N	680	68.0	10 KHz	234	0.75	0.75
SMTDRRI6D38-820N	820	82.0	10 KHz	324	0.70	0.70
SMTDRRI6D38-101N	101	100	10 KHz	358	0.65	0.65

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI8D SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J
SMTDRRI8D28	8.3	10.8	3.1	6.3	1.2	2.5	10.1	2.8	6.1	2.0
SMTDRRI8D38	8.3	11.0	4.0	6.3	1.2	2.5	10.1	2.8	6.1	2.0
SMTDRRI8D43	8.3	10.8	4.5	6.3	1.2	2.5	10.1	2.8	6.1	2.0
SMTDRRI8D58	8.3	11.0	6.0	6.3	1.2	2.5	10.1	2.8	6.1	2.0

Features :

- Magnetically shielded construction.
- Low DC resistance.
- Suitable for high current.
- Available on tape and reel for auto surface mounting.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 35% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max $\Delta T=40^{\circ}\text{C}$. (Ta=20°C).
- Operating temperature : -30°C to 105°C.

Product identification :

SMT DRRI8D28 - 100 M

(1) (2) (3) (4)

(1) Type : **Surface Mountable Type**.

(2) Style : **DR** core with **RI** Shield.

8D is 8.0mm square and **28** is about 3.1mm height.

(3) Inductance : **100** for **10** uH.

(4) Inductance tolerance : **N**: $\pm 30\%$; **M**: $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C.

● SMTDRRI8D28 series

Part No.	Stamp	Inductance L (μ H)	Test Freq. (1.0V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTDRRI8D28-2R5N	2R5	2.5	100 KHz	22.0 (17)	5.00	4.80
SMTDRRI8D28-3R3N	3R3	3.3	100 KHz	28.0 (22)	4.50	4.20
SMTDRRI8D28-4R7N	4R7	4.7	100 KHz	33.8 (26)	3.80	3.70
SMTDRRI8D28-7R3N	7R3	7.3	100 KHz	52.0 (40)	3.00	3.20
SMTDRRI8D28-100M	100	10.0	100 KHz	71.0 (55)	2.70	2.35
SMTDRRI8D28-150M	150	15.0	100 KHz	91.0 (70)	2.20	1.85
SMTDRRI8D28-220M	220	22.0	100 KHz	135 (105)	1.80	1.45
SMTDRRI8D28-330M	330	33.0	100 KHz	208 (160)	1.50	1.30
SMTDRRI8D28-470M	470	47.0	100 KHz	273 (210)	1.25	1.00
SMTDRRI8D28-680M	680	68.0	100 KHz	403 (310)	1.00	0.90
SMTDRRI8D28-101M	101	100.0	100 KHz	533 (410)	0.90	0.75
SMTDRRI8D28-151M	151	150.0	100 KHz	820 (630)	0.75	0.65
SMTDRRI8D28-181M	181	180.0	100 KHz	880 (680)	0.65	0.55
SMTDRRI8D28-221M	221	220.0	100 KHz	1120(870)	0.55	0.50

● SMTDRRI8D38 series

Part No.	Stamp	Inductance L (μ H)	Test Freq. (1.0V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTDRRI8D38-1R8N	1R8	1.8	100 KHz	15.6 (12)	7.0	6.8
SMTDRRI8D38-2R5N	2R5	2.5	100 KHz	17.5 (14)	6.5	6.0
SMTDRRI8D38-3R5N	3R5	3.5	100 KHz	24.0 (17)	5.0	5.2
SMTDRRI8D38-4R7N	4R7	4.7	100 KHz	29.0 (22)	4.6	4.4
SMTDRRI8D38-6R0N	6R0	6.0	100 KHz	32.0 (24)	4.2	4.0
SMTDRRI8D38-100N	100	10.0	100 KHz	48.0 (43)	3.0	3.2
SMTDRRI8D38-150N	150	15.0	100 KHz	67.0 (61)	2.75	2.5
SMTDRRI8D38-220N	220	22.0	100 KHz	105 (86)	2.30	2.0
SMTDRRI8D38-330N	330	33.0	100 KHz	157 (128)	1.75	1.6
SMTDRRI8D38-470N	470	47.0	100 KHz	189 (163)	1.52	1.42
SMTDRRI8D38-680N	680	68.0	100 KHz	290 (232)	1.30	1.08
SMTDRRI8D38-101N	101	100.0	100 KHz	410 (355)	1.05	0.88

● SMTDRRI8D43 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTDRRI8D43-2R0N	2R0	2.0	100 KHz	14.0 (11)	7.0	5.5
SMTDRRI8D43-3R3N	3R3	3.3	100 KHz	17.0 (13)	6.2	5.0
SMTDRRI8D43-3R9N	3R9	3.9	100 KHz	19.0 (15)	5.9	4.5
SMTDRRI8D43-4R7N	4R7	4.7	100 KHz	22.0 (17)	5.6	4.1
SMTDRRI8D43-6R8N	6R8	6.8	100 KHz	30.0 (23)	4.4	3.5
SMTDRRI8D43-100M	100	10.0	100 KHz	36.0 (29)	4.0	3.2
SMTDRRI8D43-150M	150	15.0	100 KHz	53.0 (42)	2.9	2.3
SMTDRRI8D43-220M	220	22.0	100 KHz	75.0 (60)	2.6	1.8
SMTDRRI8D43-330M	330	33.0	100 KHz	125 (100)	2.2	1.4
SMTDRRI8D43-470M	470	47.0	100 KHz	180 (140)	1.8	1.3
SMTDRRI8D43-680M	680	68.0	100 KHz	240 (190)	1.5	1.0
SMTDRRI8D43-101M	101	100.0	100 KHz	360 (290)	1.3	0.8

● SMTDRRI8D58 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTDRRI8D58-2R8N	2R8	2.8	100 KHz	15.0 (12)	4.7	6.9
SMTDRRI8D58-3R9N	3R9	3.9	100 KHz	16.3 (13)	4.1	6.3
SMTDRRI8D58-5R0N	5R0	5.0	100 KHz	17.5 (14)	3.8	6.0
SMTDRRI8D58-6R2N	6R2	6.2	100 KHz	20.0 (16)	3.3	5.5
SMTDRRI8D58-100N	100	10.0	100 KHz	25.6 (22)	2.6	4.5
SMTDRRI8D58-150N	150	15.0	100 KHz	36.3 (27)	2.3	3.6
SMTDRRI8D58-220N	220	22.0	100 KHz	45.3 (39)	1.7	3.3
SMTDRRI8D58-330N	330	33.0	100 KHz	65.3 (52)	1.5	2.7
SMTDRRI8D58-470N	470	47.0	100 KHz	90.5 (75)	1.2	2.2
SMTDRRI8D58-680N	680	68.0	100 KHz	130 (104)	1.0	1.7
SMTDRRI8D58-101N	101	100.0	100 KHz	175 (140)	0.8	1.4

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI SERIES

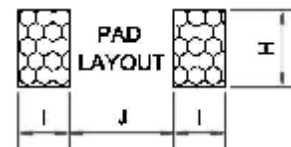
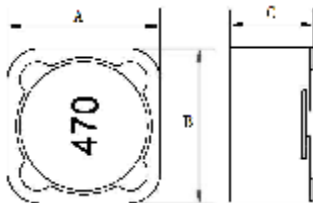
SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.
SMTDRRI62B	6.2±0.3	5.9±0.3	3.0
SMTDRRI64B	6.2±0.3	5.9±0.3	5.0
SMTDRRI 73	7.3±0.2	7.3±0.2	3.4
SMTDRRI 74	7.3±0.2	7.3±0.2	4.5
SMTDRRI124	12.0±0.3	12.0±0.3	4.5
SMTDRRI125	12.0±0.3	12.0±0.3	6.0
SMTDRRI127	12.0±0.3	12.0±0.3	8.0
SMTDRRI129	12.0±0.5	12.0±0.5	10.0

Item	H	I	J
SMTDRRI62B	1.9	1.4	4.6
SMTDRRI64B	1.9	1.4	4.6
SMTDRRI73	2.2	1.6	4.8
SMTDRRI74	2.2	1.6	4.8
SMTDRRI124	5.4	2.9	7.0
SMTDRRI125	5.4	2.9	7.0
SMTDRRI127	5.4	2.9	7.0
SMTDRRI129	5.4	2.9	7.0

Features :

- High power , High saturation inductors.
- With magnetic shield against radiation .
- Directly connected electrode on ferrite core .
- Highly accurate dimensions for automatic mounting

Characteristics :

- Rated Current: It is either the inductance is 25% lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature : -30°C to 105°C .

Product identification :

SMT DRRI 125 - 470 M

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : **DR** Core with **RI** Shield. **125** is size

(3)Inductance : **470** for **47** uH.

(4)Inductance tolerance : **M** : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .

● SMTDRRI 62B / 64B / 73 / 74 series

Part No.	Inductance L (μH)	DC Resistance (Ω)Max.				Rated Current (A)Max.			
		DRRI62B	DRRI64B	DRRI73	DRRI74	DRRI62B	DRRI64B	DRRI73	DRRI74
2R9N	2.9	0.068				1.94			
4R0N	4.0	0.080				1.63			
5R5N	5.5	0.096				1.40			
100M	10	0.15	0.12	0.072	0.049	1.10	1.35	1.68	1.84
120M	12	0.20	0.13	0.098	0.058	1.00	1.22	1.52	1.71
150M	15	0.23	0.18	0.130	0.081	0.90	1.11	1.33	1.47
180M	18	0.27	0.24	0.140	0.091	0.80	1.02	1.20	1.31
220M	22	0.34	0.27	0.190	0.110	0.74	0.91	1.07	1.23
270M	27	0.38	0.30	0.210	0.150	0.66	0.82	0.96	1.12
330M	33	0.45	0.33	0.240	0.170	0.59	0.74	0.91	0.96
390M	39	0.49	0.37	0.320	0.230	0.54	0.69	0.77	0.91
470M	47	0.69	0.52	0.360	0.260	0.50	0.62	0.76	0.88
560M	56	0.78	0.56	0.470	0.350	0.46	0.58	0.68	0.75
680M	68	1.07	0.63	0.520	0.380	0.42	0.51	0.61	0.69
820M	82	1.21	0.71	0.690	0.430	0.38	0.46	0.57	0.61
101M	100	1.39	1.03	0.790	0.610	0.34	0.42	0.50	0.60
121M	120	1.90	1.15	0.890	0.660	0.31	0.38	0.49	0.52
151M	150	2.18	1.68	1.270	0.880	0.28	0.35	0.43	0.46
181M	180	2.77	1.87	1.450	0.980	0.26	0.32	0.39	0.42
221M	220	3.12	2.08	1.650	1.170	0.23	0.29	0.35	0.36
271M	270	4.38	2.37	2.310	1.640	0.22	0.26	0.32	0.34
331M	330	4.94	2.67	2.620	1.860	0.19	0.23	0.28	0.32
391M	390		2.94	2.940	2.850		0.22	0.26	0.29
471M	470		3.93	4.180	3.010		0.20	0.24	0.26
561M	560		5.43	4.670	3.620		0.18	0.22	0.23
681M	680		7.32	5.730	4.630		0.17	0.19	0.22
821M	820		8.24	6.540	5.200		0.15	0.18	0.20
102M	1000		9.26	9.440	6.000		0.14	0.16	0.18

Tolerance of Inductance and Measuring Freq. :

SMTDRRI62B 2.9~5.5uH (N) +40% -20% @ 7.96MHz 0.25V; 10~330uH(M) ±20% @1kHz 0.25V

SMTDRRI64B. SMTDRRI73 . SMTDRRI74 10~1000uH(M) ±20% @1kHz 0.25V

● SMTDRRI 124 / 125 / 127 series

Part No.	Inductance L (μH)	DC Resistance (Ω)Max.			Rated Current (A)Max.		
		DRRI124	DRRI125	DRRI127	DRRI124	DRRI125	DRRI127
1R2	1.2			7.0m			9.80
1R3	1.3		0.012			8.00	
2R1	2.1		0.014			7.00	
2R4	2.4			11.5m			8.00
3R1	3.1		0.017			6.00	
3R5	3.5			13.5m			7.50
3R9	3.9	0.015			6.05		
4R4	4.4		0.020			5.00	
4R7	4.7	0.018		15.8m	5.70		6.80
5R8	5.8		0.021			4.40	
6R1	6.1			17.6m			6.60
6R8	6.8	0.023			4.90		
7R5	7.5		0.024			4.20	
7R6	7.6			20.0m			5.90
100	10	0.028	0.025	21.6m	4.50	4.00	5.40
120	12	0.038	0.027	24.3m	4.00	3.50	4.90
150	15	0.050	0.030	27.0m	3.20	3.30	4.50
180	18	0.057	0.034	39.2m	3.10	3.00	3.90
220	22	0.066	0.036	43.2m	2.90	2.80	3.60
270	27	0.080	0.051	45.9m	2.80	2.30	3.40
330	33	0.097	0.057	64.8m	2.70	2.10	3.00
390	39	0.132	0.068	72.9m	2.10	2.00	2.75
470	47	0.150	0.075	100m	1.90	1.80	2.50
560	56	0.190	0.110	110m	1.80	1.70	2.35
680	68	0.220	0.120	140m	1.50	1.50	2.10
820	82	0.260	0.140	150m	1.30	1.40	1.95
101	100	0.308	0.160	220m	1.20	1.30	1.70
121	120	0.380	0.170	230m	1.10	1.10	1.60
151	150	0.530	0.230	250m	0.95	1.00	1.42
181	180	0.620	0.290	320m	0.85	0.90	1.30
221	220	0.700	0.400	360m	0.80	0.80	1.16
271	270	0.876	0.460	470m	0.60	0.75	1.06
331	330	0.990	0.510	520m	0.50	0.68	0.95
391	390		0.690	700m		0.65	0.88
471	470		0.770	980m		0.58	0.79
561	560		0.860	1.07		0.54	0.73
681	680		1.200	1.46		0.48	0.67
821	820		1.340	1.64		0.43	0.60
102	1000		1.530	1.80		0.40	0.55

Tolerance of Inductance and Measuring Freq. :

SMTDRRI124 3.9~330uH(M) ± 20% @ 100kHz 0.25V

SMTDRRI125 1.3~7.5 uH(N) +30% -20% @7.96MHz 0.25V; 10~1000uH(M)±20% @1kHz 0.25V

SMTDRRI127 1.2~7.6 uH(N) +40% -20% @100kHz 0.25V; 10~1000uH(M)±20% @1kHz 0.25V

● SMTDRRI129 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
1R0N	1R0	1.0	100 KHz	6.5 (4.4)	19.9	11.6
1R8N	1R8	1.8	100 KHz	7.5 (5.2)	13.4	11.0
2R5N	2R5	2.5	100 KHz	9.0 (6.4)	12.2	10.3
3R5N	3R5	3.5	100 KHz	10.7(7.7)	12.0	8.70
4R7N	4R7	4.7	100 KHz	12.0(8.9)	10.1	8.40
6R8N	6R8	6.8	100 KHz	13.0(9.9)	8.56	7.10
7R5N	7R5	7.5	100 KHz	15.0(11)	8.48	6.80
100N	10	10.0	1.0 KHz	18.0(14)	7.12	6.95
120M	120	12.0	1.0 KHz	19.0(15)	7.04	6.20
150M	150	15.0	1.0 KHz	26.0(21)	5.84	5.22
220M	220	22.0	1.0 KHz	29.0(23)	5.12	4.95
330M	330	33.0	1.0 KHz	53.0(42)	4.25	3.60
470M	470	47.0	1.0 KHz	63.0(50)	3.60	3.45
560M	560	56.0	1.0 KHz	68.0(54)	2.85	2.95
680M	680	68.0	1.0 KHz	93.0(74)	2.76	2.85
820M	820	82.0	1.0 KHz	99.0(79)	2.62	2.60
101M	101	100.0	1.0 KHz	126.0(101)	2.31	2.45
121M	121	120.0	1.0 KHz	154.0(123)	2.05	2.20
151M	151	150.0	1.0 KHz	174.0(139)	1.80	1.90
181M	181	180.0	1.0 KHz	191.0(153)	1.66	1.86
221M	221	220.0	1.0 KHz	246.0(197)	1.64	1.72
331M	331	330.0	1.0 KHz	386.0(309)	1.28	1.28
471M	471	470.0	1.0 KHz	471.0(377)	1.06	1.25
561M	561	560.0	1.0 KHz	650.0(520)	1.01	0.98
681M	681	680.0	1.0 KHz	730.0(584)	0.83	0.96
821M	821	820.0	1.0 KHz	824.0(659)	0.81	0.94
102M	102	1000.0	1.0 KHz	1200.0(970)	0.70	0.78
122M	122	1200.0	1.0 KHz	1330.0(1110)	0.64	0.79
152M	152	1500.0	1.0 KHz	1990.0(1660)	0.56	0.58
182M	182	1800.0	1.0 KHz	2180.0(1820)	0.48	0.54
222M	222	2200.0	1.0 KHz	2580.0(2150)	0.43	0.52

Tolerance of Inductance and Measuring Freq. :

SMTDRRI129 1.0~10uH(N) ±30% @100kHz 1.0V; 10~2200uH(M)±20% @1kHz 0.25V

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI SERIES

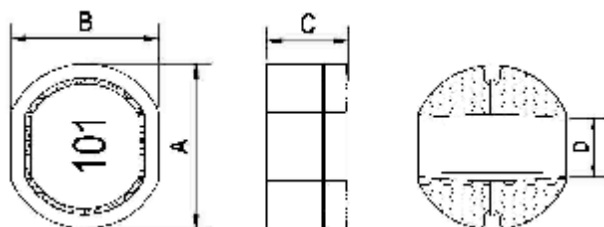
SHIELDED SMT POWER INDUCTORS.

Applications :

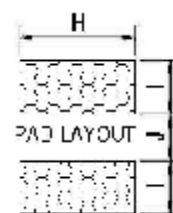
- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C
SMTDRRI63B	6.2±0.30	5.6±0.30	3.2±0.3
SMTDRRI74B	7.8±0.35	7.0±0.35	4.5±0.4
SMTDRRI105B	10.0±0.40	9.0±0.40	5.0±0.5
SMTDRRI125B	12.6±0.50	11.6±0.50	5.4±0.5



Item	D	H	I	J
SMTDRRI63B	1.7	5.5	2.25	1.7
SMTDRRI74B	1.9	7.5	4.0	2.0
SMTDRRI105B	2.5	9.5	5.0	2.5
SMTDRRI125B	3.0	12.0	6.0	3.0

Features :

- Silver Plated Type, Low cost design.
- High power, High saturation inductors
- With magnetic shield against radiation.
- Ideal inductors for DC-DC conversion.

Characteristics :

- Rated Current: It is either the inductance is 10% (125B is 25%) lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower
- Operating temperature : -30°C to 105°C .

Product identification :

SMT DRRI105B - 101 K

(1) (2) (3) (4)

- (1) Type : **Surface Mountable Type**.
- (2) Style : **DR** Core with **RI** core , **105B** is size.
- (3) Inductance : Example : **101** for **100** uH.
- (4) Inductance tolerance :

K : $\pm 10\%$, **L** : $\pm 15\%$, **M** : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .

● SMTDRRI 63B / 74B / 105B / 125B series

Part No.	Inductance L (μH)	DC Resistance (Ω)Max.				Rated Current (Amp)Max.			
		63B	74B	105B	125B	63B	74B	105B	125B
100	10	0.14	0.07	0.06	0.05	1.00	1.65	2.06	2.65
120	12	0.16	0.07	0.07	0.05	0.94	1.57	1.94	2.50
150	15	0.18	0.08	0.07	0.06	0.86	1.39	1.72	2.45
180	18	0.25	0.10	0.08	0.06	0.78	1.29	1.58	2.40
220	22	0.32	0.13	0.08	0.07	0.76	1.12	1.42	2.20
270	27	0.36	0.16	0.10	0.08	0.64	1.06	1.32	2.00
330	33	0.41	0.18	0.11	0.10	0.61	0.97	1.16	1.80
390	39	0.47	0.18	0.12	0.11	0.53	0.91	1.10	1.65
470	47	0.51	0.27	0.14	0.12	0.50	0.80	1.00	1.50
560	56	0.72	0.29	0.19	0.15	0.46	0.76	0.93	1.38
680	68	0.82	0.33	0.21	0.17	0.42	0.68	0.85	1.26
820	82		0.43	0.28	0.20		0.62	0.79	1.14
101	100		0.49	0.34	0.25		0.55	0.72	1.05
121	120		0.68	0.37	0.28		0.49	0.63	0.95
151	150		0.94	0.51	0.40		0.44	0.55	0.85
181	180		1.00	0.57	0.48		0.40	0.50	0.77
221	220		1.18	0.78	0.52		0.36	0.47	0.70
271	270		1.30	0.87	0.70		0.33	0.41	0.63
331	330			1.20	0.80			0.37	0.57
391	390			1.34	1.08			0.35	0.52
471	470			1.50	1.20			0.33	0.48
561	560				1.34				0.44
681	680				1.78				0.40
821	820				2.00				0.36

Measuring Freq.(L):10~82uH (2.52MHz 0.25V)

100~470uH(1KHz 0.25V)

Tolerance of Inductance :

SMTDRRI63B 10~27uH ± 20%(M)

33~68uH ± 15%(L)

SMTDRRI74B 10~27uH ± 20%(M)

33~82uH ± 15%(L)

100~270uH ±10%(K)

SMTDRRI105B 10~27uH ± 20%(M)

33~82uH ± 15%(L)

100~470uH ±10%(K)

SMTDRRI125B 10~18uH ± 20%(M)

22~820uH +20% -15%(M)

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SMTDRRI SERIES

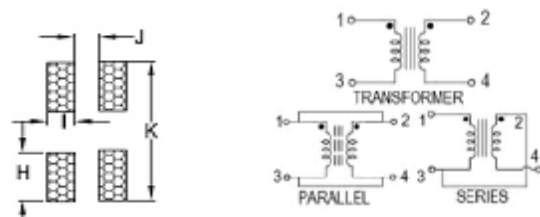
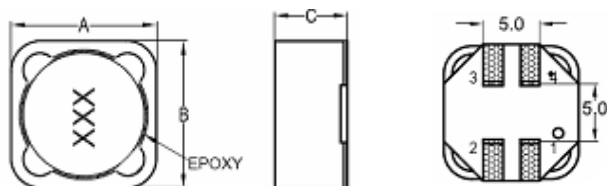
SHIELDED SMT POWER INDUCTORS.

Applications :

- Satellite communication systems.
- TVs and audio equipment.
- Microwave equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.
SMTDRRI74P	7.3±0.3	7.3±0.3	4.8
SMTDRRI125P	12.0±0.3	12.0±0.3	6.5
SMTDRRI127P	12.0±0.3	12.0±0.3	8.5

Item	I	J	H	K
SMTDRRI74P	1.1	0.8	2.1	7.5
SMTDRRI125P	2.0	1.5	4.0	12.5
SMTDRRI127P	2.0	1.5	4.0	12.5

Features :

- High Q over a wide frequency range.
- With magnetic shield against radiation .
- Directly connected electrode on ferrite core.
- Highly accurate dimensions for automatic mounting.
- Winding to winding isolation 200 Vrms.
- Resistance to soldering heat Max three 10 second reflows at.
- +260°C, parts cooled to room temperature between cycles.
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at. <30°C /85% relative humidity)

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 30% lower than initial value.(Ta=25°C).
- Temperature Rise (Irms): The current when temperature of coil increases up to Max $\Delta T=40^{\circ}\text{C}$. (Ta=25°C)
- Operating temperature: -40°C to 125°C.

Product identification :

SMT **DRRI74** **P -** **101** **M-** **4P**

1 2 3 4 5 6

- (1).Type : Surface Mount Type.
- (2).Style : L=7.3mm W=7.3mm H=4.5mm.
- (3). Base type : plastify.
- (4).Inductance : 101 for 100 uH.
- (5).Inductance tolerance : K : $\pm 10\%$ M $\pm 20\%$.
- (6).4P : 4 terminals.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● SMTDRRI 74P series

PART NO.	L ±20% (uH)	I sat(A) 10%drop Typ.	I sat(A) 20%drop Typ.	I sat(A) 30%drop Typ.	DCR (Ω) Max.	SRF MHz Typ.	I rms(A) both windings	I rms(A) one windings
SMTDRRI74P-2R5□-4P	2.5	6.00	6.20	6.30	0.036	55.0	2.17	3.06
SMTDRRI74P-3R3□-4P	3.3	5.20	5.30	5.40	0.044	43.0	2.05	2.89
SMTDRRI74P-4R7□-4P	4.7	4.10	4.30	4.60	0.051	35.0	1.74	2.46
SMTDRRI74P-5R6□-4P	5.6	3.90	4.10	4.20	0.063	32.0	1.57	2.22
SMTDRRI74P-6R8□-4P	6.8	3.70	3.80	3.90	0.070	30.0	1.49	2.10
SMTDRRI74P-8R2□-4P	8.2	3.30	3.40	3.50	0.086	27.0	1.44	2.03
SMTDRRI74P-100□-4P	10	2.80	2.90	3.00	0.100	22.0	1.24	1.76
SMTDRRI74P-120□-4P	12	2.50	2.60	2.70	0.120	20.0	1.14	1.61
SMTDRRI74P-150□-4P	15	2.20	2.30	2.40	0.140	18.0	1.09	1.54
SMTDRRI74P-180□-4P	18	2.00	2.20	2.30	0.170	15.0	0.95	1.35
SMTDRRI74P-220□-4P	22	1.90	2.00	2.10	0.220	13.5	0.84	1.19
SMTDRRI74P-270□-4P	27	1.70	1.80	1.90	0.250	12.0	0.79	1.11
SMTDRRI74P-330□-4P	33	1.50	1.60	1.70	0.30	11.0	0.76	1.07
SMTDRRI74P-390□-4P	39	1.30	1.40	1.50	0.38	10.0	0.64	0.90
SMTDRRI74P-470□-4P	47	1.20	1.30	1.40	0.42	9.5	0.61	0.86
SMTDRRI74P-560□-4P	56	1.10	1.20	1.30	0.54	8.7	0.58	0.82
SMTDRRI74P-680□-4P	68	1.00	1.10	1.20	0.64	7.3	0.51	0.72
SMTDRRI74P-820□-4P	82	0.90	1.00	1.10	0.72	6.2	0.48	0.67
SMTDRRI74P-101□-4P	100	0.80	0.92	0.98	0.90	5.5	0.45	0.63
SMTDRRI74P-121□-4P	120	0.70	0.80	0.90	1.12	4.5	0.39	0.55
SMTDRRI74P-151□-4P	150	0.65	0.76	0.80	1.35	4.0	0.34	0.48
SMTDRRI74P-181□-4P	180	0.62	0.66	0.73	1.66	3.8	0.32	0.45
SMTDRRI74P-221□-4P	220	0.59	0.62	0.66	2.20	3.5	0.30	0.42
SMTDRRI74P-271□-4P	270	0.55	0.57	0.60	2.60	3.3	0.25	0.36
SMTDRRI74P-331□-4P	330	0.49	0.52	0.54	3.20	3.0	0.24	0.34
SMTDRRI74P-391□-4P	390	0.45	0.47	0.50	4.20	2.8	0.23	0.32
SMTDRRI74P-471□-4P	470	0.41	0.43	0.46	4.70	2.6	0.20	0.28
SMTDRRI74P-561□-4P	560	0.38	0.40	0.42	5.30	2.5	0.19	0.26
SMTDRRI74P-681□-4P	680	0.36	0.37	0.38	7.00	2.3	0.18	0.25
SMTDRRI74P-821□-4P	820	0.30	0.32	0.35	7.80	2.2	0.15	0.21
SMTDRRI74P-102□-4P	1000	0.27	0.29	0.31	10.8	2.0	0.14	0.20

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0Adc on an Agilent/HP 4284A LCR meter or equivalent.
When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
3. SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.
4. DC current, when applied to one winding, at which the inductance drops the specified amount from its value without current.
5. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
6. Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
7. Electrical specifications at 25°C.

● SMTDRRI 74P series

PART NO.	leads connected in parallel					leads connected in series				
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I _{rms} (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I _{rms} (A)
SMTDRRI74P-2R5-□4P	2.5	0.018	6.30	55.0	4.33	10.0	0.072	3.15	17.60	2.17
SMTDRRI74P-3R3-□4P	3.3	0.022	5.40	43.0	4.09	13.2	0.088	2.70	12.90	2.05
SMTDRRI74P-4R7-□4P	4.7	0.026	4.60	35.0	3.48	18.8	0.102	2.30	9.80	1.74
SMTDRRI74P-5R6-□4P	5.6	0.032	4.20	32.0	3.14	22.4	0.126	2.10	8.48	1.57
SMTDRRI74P-6R8-□4P	6.8	0.035	3.90	30.0	2.97	27.2	0.140	1.95	7.92	1.49
SMTDRRI74P-8R2-□4P	8.2	0.043	3.50	27.0	2.87	32.8	0.172	1.75	7.10	1.44
SMTDRRI74P-100-□4P	10	0.050	3.00	22.0	2.49	40.0	0.20	1.50	5.75	1.24
SMTDRRI74P-120-□4P	12	0.060	2.70	20.0	2.28	48.0	0.24	1.35	5.18	1.14
SMTDRRI74P-150-□4P	15	0.070	2.40	18.0	2.18	60.0	0.28	1.20	4.59	1.09
SMTDRRI74P-180-□4P	18	0.085	2.30	15.0	1.91	72.0	0.34	1.15	3.80	0.95
SMTDRRI74P-220-□4P	22	0.110	2.10	13.5	1.68	88.0	0.44	1.05	3.38	0.84
SMTDRRI74P-270-□4P	27	0.125	1.90	12.0	1.57	108	0.50	0.95	2.98	0.79
SMTDRRI74P-330-□4P	33	0.150	1.70	11.0	1.51	132	0.60	0.85	2.68	0.76
SMTDRRI74P-390-□4P	39	0.190	1.50	10.0	1.27	156	0.76	0.75	2.40	0.64
SMTDRRI74P-470-□4P	47	0.21	1.40	9.50	1.22	188	0.84	0.70	2.23	0.61
SMTDRRI74P-560-□4P	56	0.27	1.30	8.70	1.16	224	1.08	0.65	2.16	0.58
SMTDRRI74P-680-□4P	68	0.32	1.20	7.30	1.02	272	1.28	0.60	1.73	0.51
SMTDRRI74P-820-□4P	82	0.36	1.10	6.20	0.95	328	1.44	0.55	1.35	0.48
SMTDRRI74P-101-□4P	100	0.45	0.98	5.50	0.89	400	1.80	0.49	1.18	0.45
SMTDRRI74P-121-□4P	120	0.56	0.90	4.50	0.78	480	2.24	0.45	1.10	0.39
SMTDRRI74P-151-□4P	150	0.675	0.80	4.00	0.68	600	2.70	0.40	0.82	0.34
SMTDRRI74P-181-□4P	180	0.83	0.73	3.80	0.64	720	3.32	0.36	0.72	0.32
SMTDRRI74P-221-□4P	220	1.10	0.66	3.50	0.59	880	4.40	0.33	0.63	0.30
SMTDRRI74P-271-□4P	270	1.30	0.60	3.30	0.51	1080	5.20	0.30	0.58	0.25
SMTDRRI74P-331-□4P	330	1.60	0.54	3.00	0.48	1320	6.40	0.27	0.53	0.24
SMTDRRI74P-391-□4P	390	2.10	0.50	2.80	0.45	1560	8.40	0.25	0.48	0.23
SMTDRRI74P-471-□4P	470	2.35	0.46	2.60	0.40	1880	9.40	0.23	0.42	0.20
SMTDRRI74P-561-□4P	560	2.65	0.42	2.50	0.37	2240	10.6	0.21	0.39	0.19
SMTDRRI74P-681-□4P	680	3.50	0.38	2.30	0.35	2720	14.0	0.19	0.34	0.18
SMTDRRI74P-821-□4P	820	3.90	0.35	2.20	0.30	3280	15.6	0.175	0.32	0.15
SMTDRRI74P-102-□4P	1000	5.40	0.31	2.00	0.28	4000	21.6	0.155	0.28	0.14

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings when connected in parallel. DCR for each winding is twice the value.
4. SRF measured using Agilent/HP E4991A or equivalent.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Electrical specifications at 25°C.
9. Inductance tolerance: 2.5uH~100uH tolerance can be done "M" 120uH~1000uH tolerance can be done "K"

● SMTDRRI125P series

PART NO.	L ±20% (uH)	I sat(A) 30%drop Typ.	DCR (Ω) Max.	SRF MHz Typ.	I rms(A) both windings	I rms(A) one windings
SMTDRRI125P-4R7□-4P	4.7	10.30	0.036	32.0	3.16	4.47
SMTDRRI125P-5R6□-4P	5.6	9.66	0.040	31.0	3.00	4.24
SMTDRRI125P-6R8□-4P	6.8	9.21	0.048	28.0	2.75	3.88
SMTDRRI125P-8R2□-4P	8.2	8.55	0.052	25.0	2.63	3.72
SMTDRRI125P-100□-4P	10	7.40	0.060	22.0	2.45	3.46
SMTDRRI125P-120□-4P	12	6.86	0.074	21.0	2.21	3.12
SMTDRRI125P-150□-4P	15	6.09	0.085	17.6	2.06	2.92
SMTDRRI125P-180□-4P	18	5.30	0.097	17.0	1.93	2.73
SMTDRRI125P-220□-4P	22	5.01	0.116	15.0	1.76	2.49
SMTDRRI125P-270□-4P	27	4.66	0.124	13.6	1.70	2.41
SMTDRRI125P-330□-4P	33	4.22	0.134	12.7	1.64	2.32
SMTDRRI125P-390□-4P	39	3.80	0.142	11.7	1.59	2.25
SMTDRRI125P-470□-4P	47	3.25	0.174	8.7	1.44	2.03
SMTDRRI125P-560□-4P	56	3.07	0.198	7.6	1.35	1.91
SMTDRRI125P-680□-4P	68	2.83	0.216	6.1	1.29	1.83
SMTDRRI125P-820□-4P	82	2.55	0.274	5.3	1.15	1.62
SMTDRRI125P-101□-4P	100	2.20	0.322	5.0	1.06	1.50
SMTDRRI125P-121□-4P	120	2.05	0.418	4.4	0.93	1.31
SMTDRRI125P-151□-4P	150	1.82	0.476	4.0	0.87	1.23
SMTDRRI125P-181□-4P	180	1.60	0.536	3.6	0.82	1.16
SMTDRRI125P-221□-4P	220	1.51	0.691	3.2	0.72	1.02
SMTDRRI125P-271□-4P	270	1.41	0.806	2.8	0.67	0.95
SMTDRRI125P-331□-4P	330	1.28	1.09	2.5	0.57	0.81
SMTDRRI125P-391□-4P	390	1.16	1.20	2.3	0.55	0.77
SMTDRRI125P-471□-4P	470	1.00	1.59	2.1	0.48	0.67
SMTDRRI125P-561□-4P	560	0.95	1.81	2.0	0.45	0.63
SMTDRRI125P-681□-4P	680	0.88	2.06	1.8	0.42	0.59
SMTDRRI125P-821□-4P	820	0.79	2.65	1.5	0.37	0.52
SMTDRRI125P-102□-4P	1000	0.69	3.06	1.2	0.34	0.49

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.

2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.

3. SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.

4. DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.

5. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.

6. Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

● SMTDRRI125P series

PART NO.	leads connected in parallel					leads connected in series				
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)
SMTDRRI125P-4R7□-4P	4.7	0.018	10.30	32.0	7.2	18.8	0.072	5.15	12.00	3.4
SMTDRRI125P-5R6□-4P	5.6	0.020	9.66	31.0	7.0	22.4	0.080	4.83	10.30	3.3
SMTDRRI125P-6R8□-4P	6.8	0.024	9.21	28.0	6.6	27.2	0.095	4.61	8.40	3.2
SMTDRRI125P-8R2□-4P	8.2	0.026	8.55	25.0	6.4	32.8	0.104	4.28	7.10	3.1
SMTDRRI125P-100□-4P	10	0.030	7.40	22.0	5.4	40.0	0.120	3.70	6.00	2.8
SMTDRRI125P-120□-4P	12	0.037	6.86	21.0	5.2	48.0	0.147	3.43	5.80	2.7
SMTDRRI125P-150□-4P	15	0.042	6.09	17.6	4.6	60.0	0.170	3.05	5.50	2.5
SMTDRRI125P-180□-4P	18	0.048	5.30	17.0	4.4	72.0	0.194	2.65	5.00	2.2
SMTDRRI125P-220□-4P	22	0.058	5.01	15.0	4.2	88.0	0.232	2.51	4.10	2.1
SMTDRRI125P-270□-4P	27	0.062	4.66	13.6	3.7	108	0.248	2.33	3.50	1.9
SMTDRRI125P-330□-4P	33	0.067	4.22	12.7	3.6	132	0.268	2.11	3.10	1.6
SMTDRRI125P-390□-4P	39	0.071	3.80	11.7	3.2	156	0.284	1.90	2.80	1.5
SMTDRRI125P-470□-4P	47	0.087	3.25	8.7	2.9	188	0.348	1.63	2.00	1.4
SMTDRRI125P-560□-4P	56	0.099	3.07	7.6	2.7	224	0.396	1.54	2.00	1.3
SMTDRRI125P-680□-4P	68	0.108	2.83	6.1	2.5	272	0.432	1.42	1.80	1.2
SMTDRRI125P-820□-4P	82	0.137	2.55	5.3	2.3	328	0.548	1.28	1.60	1.1
SMTDRRI125P-101□-4P	100	0.161	2.20	5.0	1.9	400	0.642	1.10	1.40	1.0
SMTDRRI125P-121□-4P	120	0.209	2.05	4.4	1.8	480	0.834	1.03	1.20	0.8
SMTDRRI125P-151□-4P	150	0.238	1.82	4.0	1.7	600	0.952	0.91	1.10	0.78
SMTDRRI125P-181□-4P	180	0.268	1.60	3.6	1.6	720	1.072	0.80	0.81	0.75
SMTDRRI125P-221□-4P	220	0.346	1.51	3.2	1.5	880	1.382	0.76	0.74	0.71
SMTDRRI125P-271□-4P	270	0.403	1.41	2.8	1.4	1080	1.61	0.71	0.63	0.65
SMTDRRI125P-331□-4P	330	0.545	1.28	2.5	1.2	1320	2.18	0.64	0.60	0.56
SMTDRRI125P-391□-4P	390	0.600	1.16	2.3	1.0	1560	2.40	0.58	0.52	0.50
SMTDRRI125P-471□-4P	470	0.795	1.00	2.1	0.86	1880	3.18	0.50	0.43	0.41
SMTDRRI125P-561□-4P	560	0.905	0.95	2.0	0.80	2240	3.62	0.48	0.36	0.38
SMTDRRI125P-681□-4P	680	1.030	0.88	1.8	0.74	2720	4.12	0.44	0.32	0.35
SMTDRRI125P-821□-4P	820	1.325	0.79	1.5	0.67	3280	5.30	0.40	0.27	0.32
SMTDRRI125P-102□-4P	1000	1.530	0.69	1.2	0.50	4000	6.12	0.35	0.23	0.29

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings when connected in parallel.
4. DCR for each winding is twice the value.
5. SRF measured using Agilent/HP E4991A or equivalent.
6. DC current at which the inductance drops 30% (typ) from its value without current.
7. Current that causes a 40°C temperature rise from 25°C ambient.
8. DCR is for both windings.
9. Inductance tolerance: 4.7uH~100uH tolerance can be done "M", 120uH~1000uH tolerance can be done "K"

● SMTDRRI127P series

PART NO.	L ±20% (uH)	I sat(A) 30%drop Typ.	DCR (Ω) Max.	SRF MHz Typ.	I rms(A) both windings	I rms(A) one windings
SMTDRRI127P-4R7□-4P	4.7	14.9	0.038	32.0	3.16	4.47
SMTDRRI127P-5R6□-4P	5.6	13.4	0.046	25.0	2.87	4.06
SMTDRRI127P-6R8□-4P	6.8	13.1	0.048	24.0	2.81	3.98
SMTDRRI127P-8R2□-4P	8.2	10.8	0.050	18.0	2.76	3.90
SMTDRRI127P-100□-4P	10	10.5	0.058	16.5	2.56	3.62
SMTDRRI127P-120□-4P	12	9.6	0.062	14.5	2.48	3.50
SMTDRRI127P-150□-4P	15	9.1	0.072	11.8	2.30	3.25
SMTDRRI127P-180□-4P	18	8.0	0.080	10.5	2.18	3.08
SMTDRRI127P-220□-4P	22	6.8	0.096	9.0	1.99	2.81
SMTDRRI127P-270□-4P	27	6.5	0.12	8.4	1.78	2.52
SMTDRRI127P-330□-4P	33	5.6	0.15	7.6	1.59	2.25
SMTDRRI127P-390□-4P	39	5.5	0.16	6.5	1.54	2.18
SMTDRRI127P-470□-4P	47	5.2	0.18	6.0	1.45	2.05
SMTDRRI127P-560□-4P	56	4.5	0.19	5.6	1.41	2.00
SMTDRRI127P-680□-4P	68	4.1	0.21	5.0	1.35	1.90
SMTDRRI127P-820□-4P	82	3.8	0.28	4.1	1.16	1.65
SMTDRRI127P-101□-4P	100	3.4	0.30	3.6	1.13	1.59
SMTDRRI127P-121□-4P	120	3.2	0.41	3.2	0.96	1.36
SMTDRRI127P-151□-4P	150	2.8	0.46	3.0	0.91	1.29
SMTDRRI127P-181□-4P	180	2.5	0.51	2.7	0.86	1.22
SMTDRRI127P-221□-4P	220	2.3	0.69	2.5	0.74	1.05
SMTDRRI127P-271□-4P	270	2.1	0.90	2.1	0.65	0.92
SMTDRRI127P-331□-4P	330	1.9	1.02	2.0	0.61	0.86
SMTDRRI127P-391□-4P	390	1.7	1.12	1.8	0.58	0.82
SMTDRRI127P-471□-4P	470	1.6	1.43	1.6	0.50	0.70
SMTDRRI127P-561□-4P	560	1.5	1.69	1.5	0.47	0.67
SMTDRRI127P-681□-4P	680	1.3	2.29	1.4	0.41	0.58
SMTDRRI127P-821□-4P	820	1.2	2.55	1.3	0.39	0.55
SMTDRRI127P-102□-4P	1000	1.1	2.83	1.1	0.37	0.52

- Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
- DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
- SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.
- DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.
- Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
- Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
- Electrical specifications at 25°C.

● SMTDRRI 127P series

PART NO.	leads connected in parallel					leads connected in series				
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)
SMTDRRI127P-4R7□-4P	4.7	0.019	14.9	32.0	7.4	18.8	0.076	7.70	12.0	3.6
SMTDRRI127P-5R6□-4P	5.6	0.023	13.4	25.0	7.2	22.4	0.092	6.60	10.4	3.5
SMTDRRI127P-6R8□-4P	6.8	0.024	13.1	24.0	6.9	27.2	0.096	6.40	9.5	3.4
SMTDRRI127P-8R2□-4P	8.2	0.025	10.8	18.0	6.6	32.8	0.100	5.60	7.2	3.3
SMTDRRI127P-100□-4P	10	0.029	10.5	16.5	6.2	40.0	0.116	5.40	6.6	3.2
SMTDRRI127P-120□-4P	12	0.031	9.60	14.5	6.0	48.0	0.124	4.80	5.4	2.9
SMTDRRI127P-150□-4P	15	0.036	9.10	11.8	5.8	60.0	0.144	4.30	5.0	2.7
SMTDRRI127P-180□-4P	18	0.040	8.00	10.5	5.5	72.0	0.158	3.90	3.8	2.5
SMTDRRI127P-220□-4P	22	0.048	6.80	9.0	5.2	88.0	0.19	3.50	3.4	2.2
SMTDRRI127P-270□-4P	27	0.060	6.50	8.4	4.7	108	0.24	3.40	3.2	2.0
SMTDRRI127P-330□-4P	33	0.075	5.60	7.6	4.2	132	0.30	3.10	3.0	1.7
SMTDRRI127P-390□-4P	39	0.080	5.50	6.5	3.6	156	0.32	2.80	2.6	1.6
SMTDRRI127P-470□-4P	47	0.090	5.20	6.0	3.0	188	0.36	2.60	2.1	1.5
SMTDRRI127P-560□-4P	56	0.095	4.50	5.6	2.8	224	0.38	2.40	2.0	1.4
SMTDRRI127P-680□-4P	68	0.105	4.10	5.0	2.6	272	0.42	2.10	1.6	1.3
SMTDRRI127P-820□-4P	82	0.140	3.80	4.1	2.3	328	0.56	1.90	1.3	1.2
SMTDRRI127P-101□-4P	100	0.150	3.40	3.6	2.0	400	0.60	1.70	1.1	1.1
SMTDRRI127P-121□-4P	120	0.205	3.20	3.2	1.9	480	0.82	1.60	1.0	1.0
SMTDRRI127P-151□-4P	150	0.230	2.80	3.0	1.8	600	0.92	1.40	0.82	0.89
SMTDRRI127P-181□-4P	180	0.255	2.50	2.7	1.7	720	1.02	1.30	0.70	0.84
SMTDRRI127P-221□-4P	220	0.345	2.30	2.5	1.6	880	1.38	1.10	0.64	0.75
SMTDRRI127P-271□-4P	270	0.450	2.10	2.1	1.5	1080	1.80	1.00	0.55	0.71
SMTDRRI127P-331□-4P	330	0.510	1.90	2.0	1.3	1320	2.04	0.92	0.47	0.62
SMTDRRI127P-391□-4P	390	0.560	1.70	1.8	1.1	1560	2.24	0.84	0.41	0.53
SMTDRRI127P-471□-4P	470	0.765	1.60	1.6	0.87	1880	3.06	0.80	0.36	0.43
SMTDRRI127P-561□-4P	560	0.845	1.50	1.5	0.83	2240	3.38	0.73	0.31	0.40
SMTDRRI127P-681□-4P	680	1.145	1.30	1.4	0.76	2720	4.58	0.63	0.30	0.36
SMTDRRI127P-821□-4P	820	1.275	1.20	1.3	0.69	3280	5.10	0.58	0.24	0.33
SMTDRRI127P-102□-4P	1000	1.415	1.10	1.1	0.60	4000	5.66	0.56	0.20	0.30

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings connected in parallel. DCR for each winding is twice the value.
4. SRF measured using an Agilent/HP E4991A or equivalent.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Inductance tolerance: 4.7uH~100uH tolerance can be done "M", 120uH~1000uH tolerance can be done "K"

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI SERIES

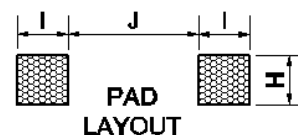
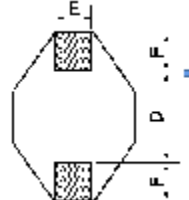
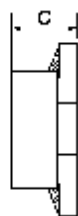
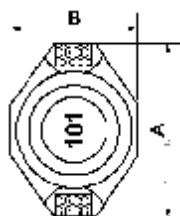
SHIELDED SMT POWER INDUCTORS.

Applications :

- Portable telephones.
- Personable computers.
- DC/DC converters, etc.
- Other various electronic appliances.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	H	I	J
SMTDRRI0402	6.60	4.45	2.92	4.32	1.27	1.02	3.56	1.4	4.06
SMTDRRI0804	12.95	9.40	5.08	7.62	2.54	2.54	2.79	2.92	7.37
SMTDRRI1206	18.54	15.24	7.62	12.70	2.54	2.54	2.79	2.92	12.45

Features :

- With magnetic shield against radiation.
- DRRI0402 can help achieve significantly longer battery life in handheld communication devices.
- DRRI0804/1206 designed for the higher current requirements of portable computers.
- DRRI0402 used ceramic base with gold-plating.
- DRRI0804/1206 used LCP plastic base.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature: -40°C to 105°C.

Product identification :

SMT DRRI0804 - 101 M

(1) (2) (3) (4)

(1) Type : **Surface Mountable Type**.

(2) Style : **DR** Core with **RI** Shield. **0804** is DR core size.

(3) Inductance : **101** for **100** uH.

(4) Inductance tolerance : **M** : $\pm 20\%$; **N** : $\pm 30\%$.

Test equipments :

- Inductance measured at 0A_{dc} on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

● SMTDRRI series

Part No.	Inductance L (μ H)	Q Min.	DCR (Ω) Max.	SRF Ref. (MHz)	I rms (A) Max.
SMTDRRI0402 -1R0N	1.0	30	0.040	250	3.0
SMTDRRI0402 -1R5N	1.5	30	0.045	125	2.3
SMTDRRI0402 -2R2N	2.2	40	0.050	120	1.8
SMTDRRI0402 -3R3N	3.3	40	0.055	120	1.6
SMTDRRI0402 -4R7N	4.7	40	0.060	105	1.4
SMTDRRI0402 -6R8N	6.8	40	0.065	50	1.2
SMTDRRI0402 -100M	10	40	0.075	38	1.0
SMTDRRI0402 -150M	15	40	0.090	33	0.80
SMTDRRI0402 -220M	22	40	0.11	25	0.70
SMTDRRI0402 -330M	33	40	0.19	20	0.60
SMTDRRI0402 -470M	47	40	0.23	20	0.50
SMTDRRI0402 -680M	68	40	0.29	15	0.40
SMTDRRI0402 -101M	100	40	0.48	10	0.30
SMTDRRI0402 -151M	150	40	0.59	9.0	0.26
SMTDRRI0402 -221M	220	40	0.90	6.0	0.22
SMTDRRI0402 -331M	330	40	1.40	5.0	0.20
SMTDRRI0402 -471M	470	40	1.80	4.0	0.19
SMTDRRI0402 -681M	680	40	2.20	3.0	0.18
SMTDRRI0402 -102M	1000	40	3.40	2.0	0.15
SMTDRRI0402 -152M	1500	50	4.20	2.0	0.12
SMTDRRI0402 -222M	2200	50	8.50	2.0	0.10
SMTDRRI0402 -332M	3300	50	11.0	1.0	0.08
SMTDRRI0402 -472M	4700	50	13.9	1.0	0.06
SMTDRRI0402 -682M	6800	50	25.0	1.0	0.04
SMTDRRI0402 -103M	10000	50	32.8	0.8	0.02

NOTE : L tested Frequency : 1R0~100 200kHz 0.1V ; 150~103 100 kHz 0.1V

● SMTDRRI series

Part No.	Inductance L (μ H)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDRRI0804 -1R0N	1.0	0.021	140	5.6	5.0
SMTDRRI0804 -1R5N	1.5	0.022	120	5.2	4.5
SMTDRRI0804 -2R2N	2.2	0.032	80	5.0	3.8
SMTDRRI0804 -3R3N	3.3	0.039	70	3.9	3.3
SMTDRRI0804 -4R7N	4.7	0.054	40	3.2	2.7
SMTDRRI0804 -6R8N	6.8	0.075	38	2.8	2.2
SMTDRRI0804 -100M	10	0.101	35	2.4	2.0
SMTDRRI0804 -150M	15	0.150	25	2.0	1.5
SMTDRRI0804 -220M	22	0.207	19	1.6	1.3
SMTDRRI0804 -330M	33	0.334	15	1.4	1.1
SMTDRRI0804 -470M	47	0.472	13	1.0	0.80
SMTDRRI1206 -100M	10	0.040	30	8.0	3.9
SMTDRRI1206 -150M	15	0.048	20	7.0	3.4
SMTDRRI1206 -220M	22	0.059	18	6.0	3.1
SMTDRRI1206 -330M	33	0.075	14	5.0	2.8
SMTDRRI1206 -470M	47	0.097	10	4.0	2.4
SMTDRRI1206 -680M	68	0.138	9.0	3.0	2.0
SMTDRRI1206 -101M	100	0.207	7.0	2.4	1.7
SMTDRRI1206 -151M	150	0.293	6.0	2.1	1.3
SMTDRRI1206 -221M	220	0.470	5.0	1.9	1.1
SMTDRRI1206 -331M	330	0.780	4.0	1.1	0.86
SMTDRRI1206 -471M	470	1.08	3.0	1.1	0.73
SMTDRRI1206 -681M	680	1.40	2.5	0.96	0.64
SMTDRRI1206 -102M	1000	2.01	2.0	0.80	0.53

NOTE : L tested Frequency : 1R0~100 200kHz 0.1V ; 150~103 100 kHz 0.1V

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

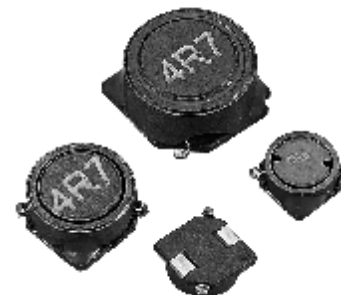


SMTDRS SERIES

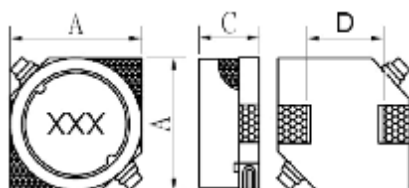
SHIELDED SMT POWER INDUCTORS.

Applications :

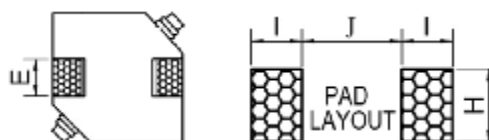
- Portable telephones.
- Personable computers.
- DC/DC converters, etc.
- Other various electronic appliances.



Shape and Dimensions (Dimensions are in mm) :



Item	A(MAX)	C(MAX)	D
DRS0628	6.2	3.0	3.0
DRS0728	7.2	3.0	4.0
DRS0730	7.2	3.2	4.0
DRS0732	7.2	3.4	4.0
DRS0745	7.2	4.8	4.0
DRS1045	10.4	4.8	6.0
DRS1255	12.8	5.85	8.6
DRS1265	12.8	6.85	8.6
DRS1275	12.8	7.85	8.6



Item	E	H	I	J
DRS0628	2.0	2.2	2.0	3.0
DRS0728	2.0	2.2	2.0	4.0
DRS0730	2.0	2.2	2.0	4.0
DRS0732	2.0	2.2	2.0	4.0
DRS0745	2.0	2.2	2.0	4.0
DRS1045	3.0	3.2	2.5	5.6
DRS1255	3.0	3.2	2.5	8.6
DRS1265	3.0	3.2	2.5	8.6
DRS1275	3.0	3.2	2.5	8.6

Features :

- Compact, low profile with low Rdc and hight current.
- With magnetic shield against radiation.
- Flat bottom surface allows for reliable mounting onto the board.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% (0628 is 30%) lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -30°C to 105°C.

Product identification :

SMT DRS0732 - 101 M

(1) (2) (3) (4)

- (1)Type : **Surface Mountable Type.**
- (2)Style : **DR** Core with Shield. **0732** is size.
- (3)Inductance : **101** for **100** uH.
- (4)Inductance tolerance : "**M**": $\pm 20\%$ "**N**": $\pm 30\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent. (@1kHz 0.5V)
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C.



● SMTDRS 0628 / 0728 / 0730 series

Part No.	L @1kHz (μH)	DCR (Ω) ±20%			Rated Current (A) Max.					
					I sat			I rms		
		0628	0728	0730	0628	0728	0730	0628	0728	0730
3R3M	3.3		0.037	0.023		1.60	1.80		1.60	1.80
4R7M	4.7	0.036	0.045	0.036	1.60	1.50	1.60	2.50	1.50	1.60
6R8M	6.8	0.052	0.059	0.041	1.50	1.30	1.50	2.20	1.30	1.50
100M	10	0.068	0.083	0.053	1.30	1.10	1.30	1.80	1.10	1.30
150M	15	0.100	0.130	0.084	1.00	0.88	1.00	1.40	0.88	1.00
220M	22	0.120	0.180	0.110	0.77	0.75	0.86	1.30	0.75	0.86
330M	33	0.180	0.240	0.160	0.69	0.65	0.65	1.10	0.65	0.65
470M	47	0.270	0.340	0.240	0.59	0.54	0.57	0.92	0.54	0.57
680M	68	0.390		0.310	0.50		0.49	0.78		0.49
101M	100	0.620		0.450	0.42		0.35	0.64		0.35

● SMTDRS 0732 / 0745 / 1045 series

Part No.	L @1kHz (μH)	DCR (Ω) ±20%			Rated Current (A) Max.					
					I sat			I rms		
		0732	0745	1045	0732	0745	1045	0732	0745	1045
3R3M	3.3	0.023	0.020		1.90	2.50		1.90	2.30	
4R7M	4.7	0.036	0.030		1.70	2.00		1.70	2.10	
6R8M	6.8	0.041	0.039		1.60	1.70		1.60	1.74	
100M	10	0.053	0.036	0.036	1.40	1.30	3.00	1.40	1.78	2.50
150M	15	0.075	0.052	0.047	1.10	1.10	2.40	1.10	1.53	2.20
220M	22	0.110	0.061	0.059	0.96	0.90	2.10	0.96	1.34	1.90
330M	33	0.160	0.096	0.082	0.75	0.82	1.60	0.75	1.09	1.70
470M	47	0.240	0.125	0.100	0.67	0.75	1.40	0.67	0.92	1.50
680M	68	0.310	0.175	0.140	0.59	0.60	1.20	0.59	0.77	1.30
101M	100	0.450	0.250	0.200	0.45	0.50	1.00	0.45	0.65	1.10
151M	150	0.650	0.340	0.350	0.37	0.40	0.79	0.37	0.55	0.81
221M	220	1.050	0.520	0.470	0.29	0.33	0.65	0.29	0.45	0.70
331M	330	1.670	0.740	0.680	0.22	0.25	0.54	0.22	0.37	0.58
471M	470	2.050	1.050	1.030	0.20	0.22	0.47	0.20	0.31	0.47
681M	680	3.150	1.480	1.600	0.16	0.20	0.38	0.16	0.27	0.38
102M	1000	4.780	2.280	2.800	0.13	0.14	0.32	0.13	0.25	0.29
152M	1500			3.400			0.22			0.26



● **SMTDRS 1255 / 1265 / 1275 series**

Part No.	L @1kHz (μ H)	DCR (m Ω) $\pm$ 20%			Rated Current (Amp) Max.					
					I sat			I rms		
		1255	1265	1275	1255	1265	1275	1255	1265	1275
1R2N	1.2			6.9			13.0			8.2
2R0N	2.0		11.7			10.0			6.2	
2R7N	2.7			9.4			10.0			7.0
3R9N	3.9			10.4			9.0			6.7
4R2N	4.2		15.0			7.3			5.5	
5R6N	5.6			11.6			7.8			6.3
6R0N	6.0	16.4			3.60			4.9		
6R8N	6.8			13.1			7.2			5.9
7R0M	7.0		17.7			5.7			5.0	
100M	10	21.5	20.2	15.6	3.40	5.0	5.5	4.3	4.8	5.4
150M	15	25.9	23.7	23	2.80	4.2	4.7	3.9	4.4	5.0
220M	22	33.8	31.6	26.3	2.30	3.5	4.0	3.4	3.8	4.0
330M	33	41.5	40.6	39.5	1.90	2.8	3.2	3.1	3.4	3.4
470M	47	61.8	57.8	52.8	1.60	2.4	2.7	2.5	2.8	3.0
680M	68	83.2	78.7	77.8	1.30	2.0	2.0	2.2	2.4	2.4
101M	100	117.0	123.0	125.0	1.10	1.6	1.9	1.8	1.9	1.9
151M	150	190.0	273.0	175.0	0.88	1.0	1.5	1.4	1.2	1.6
221M	220	270.0		258.0	0.72		1.3	1.2		1.3
331M	330	410.0			0.59			1.0		
471M	470	520.0			0.49			0.88		
681M	680	760.0			0.43			0.73		
102M	1000	1120			0.34			0.6		
152M	1500	1730			0.29			0.48		

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

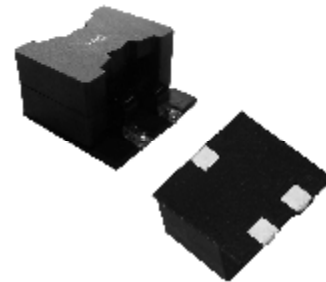


SMTPQ2614 SERIES

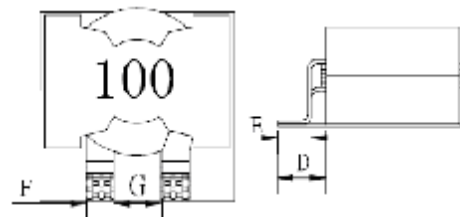
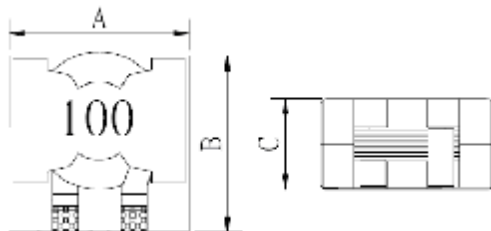
SHIELDED SMT POWER INDUCTORS

Applications :

- Desktop/server applications.
- Battery Power equipment.
- DC/DC converters.
- Power supplier, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
SMTPQ2614	27.9	26.9	15.9

Item	D	E	F	G
SMTPQ2614	6.9	3.8	4.0	6.1

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10%(M:20%) lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

SMT PQ2614L - 100 M

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type**.
- (2) Style: Flat wire with **ER** core and **L** or **H** is used for a big Current type instead of PQ2614.
- (3) Inductance : **100** for **10** μH .
- (4) Inductance tolerance : **M**: $\pm 20\%$. **K**: $\pm 10\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C.

● SMTPQ2614 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTPQ2614L-1R5M	1R5	1.5	500 KHz	1.65 (1.5)	100.0	30.0
SMTPQ2614L-2R2M	2R2	2.2	500 KHz	1.65 (1.5)	82.0	0.0
SMTPQ2614L-3R3M	3R3	3.3	500 KHz	1.65 (1.5)	48.0	30.0
SMTPQ2614L-4R7M	4R7	4.7	500 KHz	1.65 (1.5)	33.0	30.0
SMTPQ2614L-6R8M	6R8	6.8	500 KHz	1.65 (1.5)	22.0	30.0
SMTPQ2614L-100K	100	10.0	500 KHz	1.65 (1.5)	13.0	30.0
SMTPQ2614L-150K	150	15.0	500 KHz	1.65 (1.5)	7.5	30.0
SMTPQ2614L-220K	220	22.0	500 KHz	1.65 (1.5)	4.5	30.0
SMTPQ2614L-330K	330	33.0	500 KHz	1.65 (1.5)	2.0	30.0

Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTPQ2614H-2R2M	2R2	2.2	500 KHz	2.05 (1.86)	100.0	0.0
SMTPQ2614H-3R3M	3R3	3.3	500 KHz	2.05 (1.86)	62.0	30.0
SMTPQ2614H-4R7M	4R7	4.7	500 KHz	2.05 (1.86)	42.0	30.0
SMTPQ2614H-6R8M	6R8	6.8	500 KHz	2.05 (1.86)	30.0	30.0
SMTPQ2614H-100K	100	10.0	500 KHz	2.05 (1.86)	18.0	30.0
SMTPQ2614H-150K	150	15.0	500 KHz	2.05 (1.86)	11.5	30.0
SMTPQ2614H-220K	220	22.0	500 KHz	2.05 (1.86)	7.0	30.0
SMTPQ2614H-330K	330	33.0	500 KHz	2.05 (1.86)	4.0	30.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others),



kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTSDR SERIES

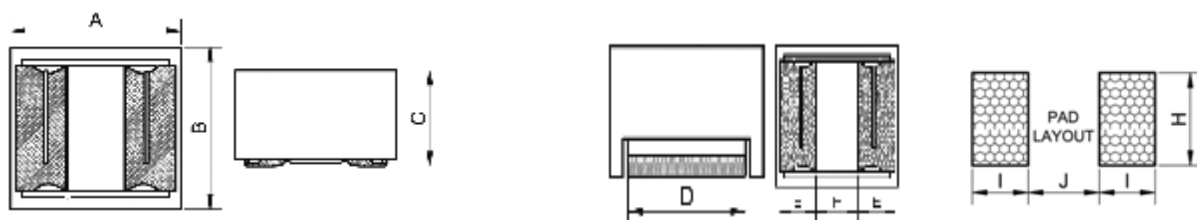
SHIELDED SMT POWER INDUCTORS.

Applications :

- EL display drive.
- Portable equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D ±0.2	E Min.	F Min.	H	I	J
SMTSDR322515S	3.5±0.2	3.6±0.2	1.7±0.2	2.5	0.7	0.7	2.0	1.5	1.0
SMTSDR322520S	3.5±0.2	3.6±0.2	2.1±0.2	2.5	0.7	0.7	2.0	1.5	1.0
SMTSDR453226S	4.9±0.3	4.2±0.3	2.8±0.3	3.2	1.0	1.0	3.0	2.0	1.2

Features :

- Low profile dimension and small size, suitable for portable equipment.
- Low DC resistance, high rated current and high inductance.
- Magnetically shielded structure prevents interference occurring between peripheral components.

Product identification :

SMT SDR322515S - 220 N
(1) (2) (3) (4)

- (1) Type: **Surface Mounting Type**.
 (2) Style: **SDR** Type core; **L=3.2mm W=2.5mm H=1.5mm**.
S: Magnetically shielded structure.
 (3) Inductance : **220** for 22uH.
 (4) Inductance tolerance : **N** ± 30%;

Characteristics :

- Rated Current: It is either the inductance is 20% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temperature : -30°C to 105°C .

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .

● SMTSDR series

Part No.	Inductance L (μ H)	Test Freq. (0.1V)	DCR (Ω) Max.	Rated Current (mA) Max.	SRF (MHz) Min.
SMTSDR322515S-3R3N	3.3	1 MHZ	0.09	320	50
SMTSDR322515S-4R7N	4.7	1 MHZ	0.12	260	42
SMTSDR322515S-6R8N	6.8	1 MHZ	0.13	210	35
SMTSDR322515S-100N	10	1 MHZ	0.22	180	28
SMTSDR322515S-220N	22	1 MHZ	0.52	120	19
SMTSDR322515S-330N	33	1 MHZ	0.65	100	16
SMTSDR322515S-471N	470	100 KHZ	9.00	30	4.2
SMTSDR322515S-561N	560	100 KHZ	9.90	30	3.8
SMTSDR322515S-821N	820	100 KHZ	20.0	20	2.7

SMTSDR322520S-3R3N	3.3	1 MHz	0.062	500	70.0
SMTSDR322520S-4R7N	4.7	1 MHz	0.082	460	50.0
SMTSDR322520S-6R8N	6.8	1 MHz	0.1	360	40.0
SMTSDR322520S-100N	10.0	1 MHz	0.14	320	30.0
SMTSDR322520S-220N	22.0	1 MHz	0.27	180	20.0
SMTSDR322520S-330N	33.0	1 MHz	0.43	120	16.0
SMTSDR322520S-470N	47.0	1 MHz	0.56	110	13.0
SMTSDR322520S-680N	68.0	1 MHz	0.91	100	10.0
SMTSDR322520S-101N	100	100 KHz	1.2	90	7.0
SMTSDR322520S-221N	220	100 KHz	2.45	75	4.0
SMTSDR322520S-331N	330	100 KHz	4.7	70	3.7
SMTSDR322520S-471N	470	100 KHz	5.2	60	3.0
SMTSDR322520S-561N	560	100 KHz	6.8	50	2.7
SMTSDR322520S-681N	680	100 KHz	11.9	40	2.3
SMTSDR322520S-102N	1000	10 KHz	14.3	30	2.1
SMTSDR322520S-152N	1500	10 KHz	22.0	25	1.7
SMTSDR322520S-222N	2200	10 KHz	30.0	20	1.2

● SMTSDR series

Part NO.	Inductance L (μ H)	Test Freq. (0.1V)	DCR (Ω) Max.	Rated Current (mA) Max.	SRF (MHz) Min.
SMTSDR453226S-R82N	0.82	1MHz	0.043	1000	180
SMTSDR453226S-1R2N	1.2	1MHz	0.056	900	140
SMTSDR453226S-2R0N	2.0	1MHz	0.068	800	120
SMTSDR453226S-2R7N	2.7	1MHz	0.075	700	80
SMTSDR453226S-3R9N	3.9	1MHz	0.082	650	70
SMTSDR453226S-4R7N	4.7	1MHz	0.10	600	50
SMTSDR453226S-5R6N	5.6	1MHz	0.11	550	38
SMTSDR453226S-6R8N	6.8	1MHz	0.12	500	30
SMTSDR453226S-8R2N	8.2	1MHz	0.13	450	26
SMTSDR453226S-100N	10.0	1MHz	0.15	400	24
SMTSDR453226S-120N	12.0	1MHz	0.17	380	21
SMTSDR453226S-150N	15.0	1MHz	0.25	340	19
SMTSDR453226S-180N	18.0	1MHz	0.27	300	15
SMTSDR453226S-220N	22.0	1MHz	0.3	280	13
SMTSDR453226S-270N	27.0	1MHz	0.33	260	12
SMTSDR453226S-330N	33.0	1MHz	0.39	240	10
SMTSDR453226S-390N	39.0	1MHz	0.43	220	9.0
SMTSDR453226S-470N	47.0	1MHz	0.47	200	8.0
SMTSDR453226S-560N	56.0	1MHz	0.52	180	7.0
SMTSDR453226S-680N	68.0	1MHz	0.56	160	6.0
SMTSDR453226S-820N	82.0	1MHz	0.91	150	5.5
SMTSDR453226S-101N	100.0	100KHz	1.0	140	5.0
SMTSDR453226S-121N	120.0	100KHz	1.1	130	4.5
SMTSDR453226S-151N	150.0	100KHz	1.35	120	4.0
SMTSDR453226S-181N	180.0	100KHz	1.65	110	3.6
SMTSDR453226S-221N	220.0	100KHz	2.0	100	3.2
SMTSDR453226S-271N	270.0	100KHz	2.5	90	2.8
SMTSDR453226S-331N	330.0	100KHz	2.7	85	2.6
SMTSDR453226S-391N	390.0	100KHz	3.6	80	2.2
SMTSDR453226S-471N	470.0	100KHz	3.9	70	2.0
SMTSDR453226S-561N	560.0	100KHz	4.7	65	1.6
SMTSDR453226S-681N	680.0	100KHz	6.8	60	1.4
SMTSDR453226S-821N	820.0	100KHz	7.5	55	1.3
SMTSDR453226S-102M	1000.0	10KHz	8.2	50	1.2
SMTSDR453226S-122M	1200.0	10KHz	12.0	45	1.1
SMTSDR453226S-152M	1500.0	10KHz	14.0	40	1.0
SMTSDR453226S-182M	1800.0	10KHz	16.5	35	0.9
SMTSDR453226S-222M	2200.0	10KHz	18.0	30	0.6
SMTSDR453226S-472M	4700.0	10KHz	50.0	20	0.5

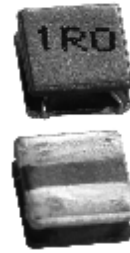
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SNR20&25&30E SERIES

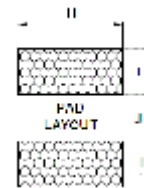
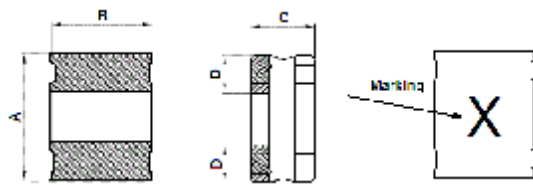
SHIELDED SMT POWER INDUCTORS

Applications :

- For small DC/DC converter (cellular phone, HDD, DVC, DSC, PDA, LCD display etc).



Shape and Dimensions (Dimensions are in mm) :



Item	A ±0.2	B ±0.2	C Max.	D
SNR2010E	2.0	1.6	1.02	0.6
SNR2510E	2.5	2.0	1.02	0.8
SNR2512E	2.5	2.0	1.20	0.8
SNR3010E	3.0	3.0	1.02	1.0
SNR3012E	3.0	3.0	1.20	1.0
SNR3015E	3.0	3.0	1.50	1.0

Item	H	I	J
SNR2010E	1.8	0.80	0.8
SNR2510E	2.0	0.85	0.8
SNR2512E	2.0	0.85	0.8
SNR3010E	3.0	1.00	1.0
SNR3012E	3.0	1.00	1.0
SNR3015E	3.0	1.00	1.0

Features :

- Realizes small size and low profile designed.
- It corresponds to high current.
- Magnetically shielded construction with magnetic Resin.
- Durable structure against dropping impact.
- RoHS compliant.

Product Identification :

SNR 2012 E - 100 M
 (1) (2) (3) (4) (5)

- (1) Type : Product type
- (2) Style : L=2.0mm H=1.0mm
- (3) Design Code
- (4) Inductance : 100 for 10uH
- (5) Inductance tolerance : M:±20%; N:±30%

Characteristics :

- Saturation current (Isat) : The current when the Inductance become 30% lower than is initial value. (Ta=20°C)
- Temperature rise current (Irms) : The current when temperature of coil increase up to max ΔT=40°C. (Ta=25°C)
- Operating temp: -25°C to 105°C

Test equipments :

- L: Agilent 4284A Precision LCR meter.
- L Load: Agilent 4284A with HP42841A current source.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C.

● SNR2010E series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (200mV)	DCR (Ω) ±30%	I sat (mA) Typ.	I rms (mA) Typ.	Marking
SNR2010E-1R0□	1.0	20, 30	1MHz	0.17	1400	1600	A
SNR2010E-1R5□	1.5	20, 30	1MHz	0.26	1100	1400	B
SNR2010E-2R2□	2.2	20, 30	1MHz	0.32	1000	1200	C
SNR2010E-3R3□	3.3	20, 30	1MHz	0.51	820	900	D
SNR2010E-4R7□	4.7	20, 30	1MHz	0.67	680	800	E
SNR2010E-5R6□	5.6	20, 30	1MHz	0.72	650	800	F
SNR2010E-6R8□	6.8	20, 30	1MHz	0.97	560	700	G
SNR2010E-100□	10	20, 30	1MHz	1.45	470	580	H
SNR2010E-220□	22	20, 30	1MHz	2.90	310	400	I

● SNR2510E series

SNR2510E-1R0□	1.0	20, 30	1MHz	0.093	2200	2200	A
SNR2510E-1R5□	1.5	20, 30	1MHz	0.148	1900	1800	B
SNR2510E-2R2□	2.2	20, 30	1MHz	0.178	1620	1680	C
SNR2510E-3R3□	3.3	20, 30	1MHz	0.286	1220	1340	D
SNR2510E-4R7□	4.7	20, 30	1MHz	0.421	1040	1020	E
SNR2510E-5R6□	5.6	20, 30	1MHz	0.481	920	940	F
SNR2510E-6R8□	6.8	20, 30	1MHz	0.598	900	880	G
SNR2510E-100□	10	20, 30	1MHz	0.797	740	820	H
SNR2510E-220□	22	20, 30	1MHz	1.839	500	520	I

● SNR2512E series

SNR2512E-1R0□	1.0	20, 30	1MHz	0.105	2800	2200	A
SNR2512E-1R5□	1.5	20, 30	1MHz	0.153	2200	1860	B
SNR2512E-2R2□	2.2	20, 30	1MHz	0.219	1800	1700	C
SNR2512E-3R3□	3.3	20, 30	1MHz	0.349	1300	1200	D
SNR2512E-4R7□	4.7	20, 30	1MHz	0.507	1100	1040	E
SNR2512E-5R6□	5.6	20, 30	1MHz	0.525	1100	1000	F
SNR2512E-6R8□	6.8	20, 30	1MHz	0.760	940	940	G
SNR2512E-100□	10	20, 30	1MHz	0.915	820	840	H
SNR2512E-220□	22	20, 30	1MHz	2.110	550	540	I

● SNR3010E series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (200mV)	DCR (Ω) ±30%	I sat (mA) Typ.	I rms (mA) Typ.	Marking
SNR3010E-1R0□	1.0	20, 30	1MHz	0.063	1300	2400	1R0
SNR3010E-1R5□	1.5	20, 30	1MHz	0.077	1100	2200	1R5
SNR3010E-2R2□	2.2	20, 30	1MHz	0.087	960	2000	2R2
SNR3010E-3R3□	3.3	20, 30	1MHz	0.127	780	1600	3R3
SNR3010E-4R7□	4.7	20, 30	1MHz	0.186	650	1300	4R7
SNR3010E-6R8□	6.8	20, 30	1MHz	0.253	560	1000	6R8
SNR3010E-100□	10	20, 30	1MHz	0.353	430	880	100
SNR2010E-220□	22	20, 30	1MHz	0.693	310	580	220

● SNR3012E series

SNR3012E-1R0□	1.0	20, 30	1MHz	0.048	1600	2500	1R0
SNR3012E-1R5□	1.5	20, 30	1MHz	0.063	1200	2300	1R5
SNR3012E-2R2□	2.2	20, 30	1MHz	0.076	1100	2000	2R2
SNR3012E-3R3□	3.3	20, 30	1MHz	0.102	900	1600	3R3
SNR3012E-4R7□	4.7	20, 30	1MHz	0.136	750	1500	4R7
SNR3012E-6R8□	6.8	20, 30	1MHz	0.182	630	1300	6R8
SNR3012E-100□	10	20, 30	1MHz	0.275	520	1000	100
SNR3012E-220□	22	20, 30	1MHz	0.594	350	650	220

● SNR3015E series

SNR3015E-1R0□	1.0	20, 30	1MHz	0.056	2000	2800	1R0
SNR3015E-1R5□	1.5	20, 30	1MHz	0.074	1600	2400	1R5
SNR3015E-2R2□	2.2	20, 30	1MHz	0.079	1200	2300	2R2
SNR3015E-3R3□	3.3	20, 30	1MHz	0.105	1000	1900	3R3
SNR3015E-4R7□	4.7	20, 30	1MHz	0.130	900	1600	4R7
SNR3015E-6R8□	6.8	20, 30	1MHz	0.165	730	1300	6R8
SNR3015E-100□	10	20, 30	1MHz	0.206	600	1000	100
SNR3015E-220□	22	20, 30	1MHz	0.501	420	650	220

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SNR40&50&60E SERIES

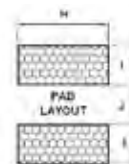
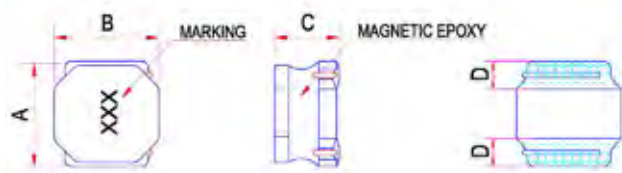
SHIELDED SMT POWER INDUCTORS

Applications :

- For small DC/DC converter (cellular phone, HDD, DVC, DSC, PDA, LCD display etc).



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C Max.	D
SNR4018E	4.0	4.0	2.0	1.2
SNR5040E	5.0	5.0	4.2	1.5
SNR6020E	6.0	6.0	2.2	1.5
SNR6045E	6.0	6.0	4.7	1.5

Item	H	I	J
SNR4018E	3.7	1.2	1.6
SNR5040E	4.0	1.5	2.1
SNR6020E	5.7	1.6	3.1
SNR6045E	5.7	1.6	3.1

Features :

- Realizes small size and low profile.
- It corresponds to high current.
- Magnetically shielded construction with magnetic Resin.
- Durable structure against dropping impact.
- RoHS compliant.

Product Identification :

SNR 4018 E - 100 M
 (1) (2) (3) (4) (5)

- (1) Type : Product type.
- (2) Style : L=4.0mm H=1.8mm.
- (3) Design Code.
- (4) Inductance : 100 for 10 uH.
- (5) Inductance tolerance : M: $\pm 20\%$; N: $\pm 30\%$.

Characteristics :

- Saturation current (I_{sat}) : The current when the Inductance become 30% lower than is initial Value. ($T_a = 20^\circ\text{C}$).
- Temperature rise current (I_{rms}) : The current when Temperature of coil increase up to max. $\Delta T = 40^\circ\text{C}$. ($T_a = 25^\circ\text{C}$)
- Operating temp: -25°C to 105°C .

Test equipments :

- L: Agilent 4284A Precision LCR meter.
- L Load: Agilent 4284A with HP42841A current source.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



● SNR4018E series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (1V)	DCR (mΩ) ±30%	I sat (A) Typ.	I rms (A) Typ.	Marking
SNR4018E-1R0□	1.0	30	100KHz	32	4.10	2.80	1R0
SNR4018E-2R2□	2.2	30	100KHz	60	2.80	2.50	2R2
SNR4018E-3R3□	3.3	30	100KHz	70	2.20	2.10	3R3
SNR4018E-4R7□	4.7	30	100KHz	90	2.00	1.70	4R7
SNR4018E-6R8□	6.8	20, 30	100KHz	110	1.60	1.50	6R8
SNR4018E-100□	10	20, 30	100KHz	170	1.40	1.20	100
SNR4018E-150□	15	20, 30	100KHz	250	1.00	1.00	150
SNR4018E-220□	22	20, 30	100KHz	350	0.90	0.85	220
SNR4018E-330□	33	20, 30	100KHz	530	0.80	0.70	330
SNR4018E-470□	47	20, 30	100KHz	720	0.70	0.56	470
SNR4018E-680□	68	20, 30	100KHz	1000	0.56	0.45	680
SNR4018E-101□	100	20, 30	100KHz	1500	0.46	0.38	101
SNR4018E-151□	150	20, 30	100KHz	2500	0.35	0.30	151
SNR4018E-221□	220	20, 30	100KHz	4000	0.28	0.23	221

● SNR5040E series

SNR5040E-1R5□	1.5	30	100KHz	16	7.10	4.40	1R5
SNR5040E-2R2□	2.2	30	100KHz	21	5.70	3.70	2R2
SNR5040E-3R3□	3.3	30	100KHz	26	4.80	3.50	3R3
SNR5040E-4R7□	4.7	20, 30	100KHz	32	4.20	3.20	4R7
SNR5040E-6R8□	6.8	20, 30	100KHz	50	3.30	2.40	6R8
SNR5040E-100□	10	20, 30	100KHz	60	2.80	2.20	100
SNR5040E-150□	15	20, 30	100KHz	90	2.30	1.80	150
SNR5040E-220□	22	20, 30	100KHz	135	1.80	1.40	220
SNR5040E-330□	33	20, 30	100KHz	190	1.50	1.10	330
SNR5040E-470□	47	20, 30	100KHz	310	1.20	0.90	470

● SNR6020E series

SNR6020E-R90□	0.9	30	100KHz	18	6.30	4.20	R90
SNR6020E-1R5□	1.5	30	100KHz	26	5.00	3.60	1R5
SNR6020E-2R2□	2.2	30	100KHz	34	4.20	3.20	2R2
SNR6020E-3R3□	3.3	30	100KHz	40	3.20	2.70	3R3
SNR6020E-4R7□	4.7	30	100KHz	58	2.50	2.20	4R7
SNR6020E-6R8□	6.8	20, 30	100KHz	85	2.20	1.80	6R8
SNR6020E-100□	10	20, 30	100KHz	125	2.00	1.60	100
SNR6020E-150□	15	20, 30	100KHz	190	1.30	1.30	150
SNR6020E-220□	22	20, 30	100KHz	260	1.10	1.10	220



● SNR6045E series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (1V)	DCR (mΩ) ±30%	I sat (A) Typ.	I rms (A) Typ.	Marking
SNR6045E-1R0□	1.0	30	100KHz	12	12.2	6.50	1R0
SNR6045E-1R8□	1.8	30	100KHz	17	9.60	5.60	1R8
SNR6045E-2R3□	2.3	30	100KHz	19	8.80	5.00	2R3
SNR6045E-3R0□	3.0	30	100KHz	22	7.80	4.40	3R0
SNR6045E-4R5□	4.5	30	100KHz	31	6.70	3.90	4R5
SNR6045E-6R8□	6.8	20, 30	100KHz	43	5.30	3.20	6R8
SNR6045E-100□	10	20, 30	100KHz	57	4.50	2.70	100
SNR6045E-150□	15	20, 30	100KHz	80	3.40	2.20	150
SNR6045E-220□	22	20, 30	100KHz	125	3.00	1.90	220
SNR6045E-330□	33	20, 30	100KHz	165	2.30	1.40	330
SNR6045E-470□	47	20, 30	100KHz	245	1.90	1.20	470
SNR6045E-680□	68	20, 30	100KHz	330	1.60	1.00	680
SNR6045E-101□	100	20, 30	100KHz	500	1.30	0.80	101

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



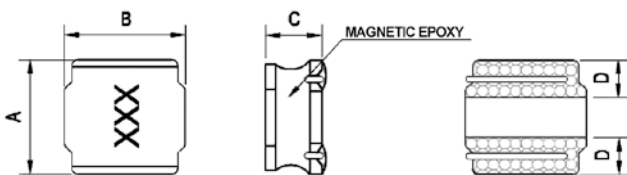
SNR8040 SERIES

SHIELDED SMT POWER INDUCTORS

Applications :

- For small DC/DC converter
(Cellular phone, HDD, DVC, DSC, PDA, LCD display etc).

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D
SNR8040	8.0±0.2	8.0±0.2	4.2	2.0 REF



Item	H	I	J
SNR8040	8.0	2.0	4.0

Features :

- Small and Low profile inductor.
- It corresponds to High current.
- Realizes small size and low profile.
- Durable structure against drop impact.

Characteristics :

- Saturation current(I_{sat}) : The current when the inductance become 30% lower than is initial value ($T_a=20^\circ\text{C}$).
- Temperature rise current (I_{rms}) : The current when Temperature of coil increase up to max $T=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).
- Operating temperature : -30°C to 105°C .

Product identification :

SNR 8040 - 101 M

(1) (2) (3) (4)

- (1).Type : Product type.
- (2).Style : $L=8.0\text{mm}$ $W=8.0\text{mm}$ $H=4.2\text{mm}$.
- (3). Inductance : **101** for **100** μH .
- (4).Inductance tolerance : **M**: $\pm 20\%$ **N**: $\pm 30\%$.

Test equipments :

- Inductance measured at 0A_{dc} on an HP 4284A LCR meter or equivalent.
- DCR measured on a Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



● SNR8040 series

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR (mΩ) ±20%	SRF MHz Min.	I sat (A) Max.	I rms (A) Max.
SNR8040-0R9N	0R9	0.9	100KHz	6	85	11.00	7.80
SNR8040-1R4N	1R4	1.4	100KHz	7	63	9.00	7.00
SNR8040-2R0N	2R0	2.0	100KHz	9	50	7.40	6.30
SNR8040-3R6N	3R6	8.2	100KHz	15	34	5.30	4.90
SNR8040-4R7N	4R7	4.7	100KHz	18	30	4.70	4.10
SNR8040-6R8N	6R8	6.8	100KHz	25	24	4.00	3.70
SNR8040-100M	100	10.0	100KHz	34	22	3.40	3.10
SNR8040-150M	150	15.0	100KHz	50	16	2.70	2.40
SNR8040-220M	220	22.0	100KHz	66	13	2.20	2.20
SNR8040-330M	330	33.0	100KHz	100	12	1.90	1.70
SNR8040-470M	470	47.0	100KHz	150	8	1.50	1.40
SNR8040-680M	680	68.0	100KHz	230	7	1.20	1.10
SNR8040-101M	101	100.0	100KHz	290	6	1.00	1.00

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others) kindly invite you to access 3L official website www.3lcoil.com for better known.

UPI A0603 SERIES

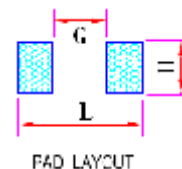
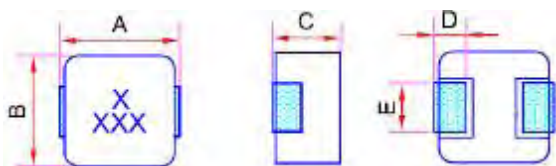
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA0603	7.8	7.0	3.2	1.6±0.3	By each P/N	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 0603 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2 uH**.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

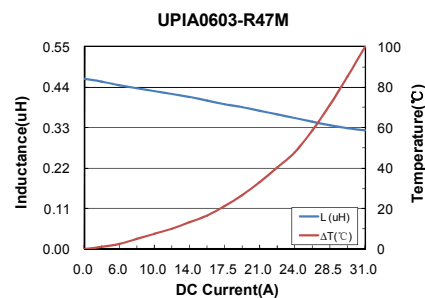
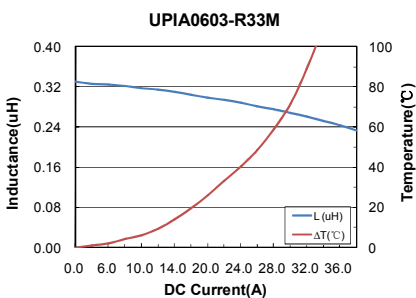
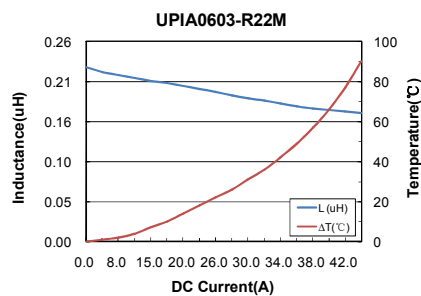
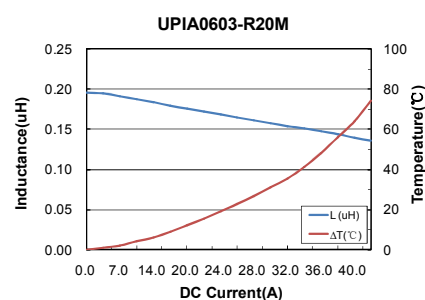
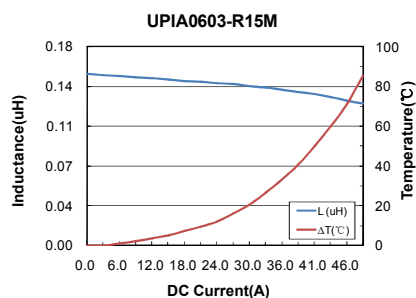
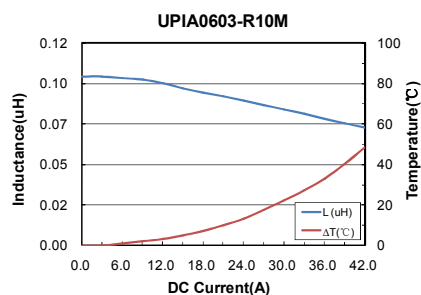
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

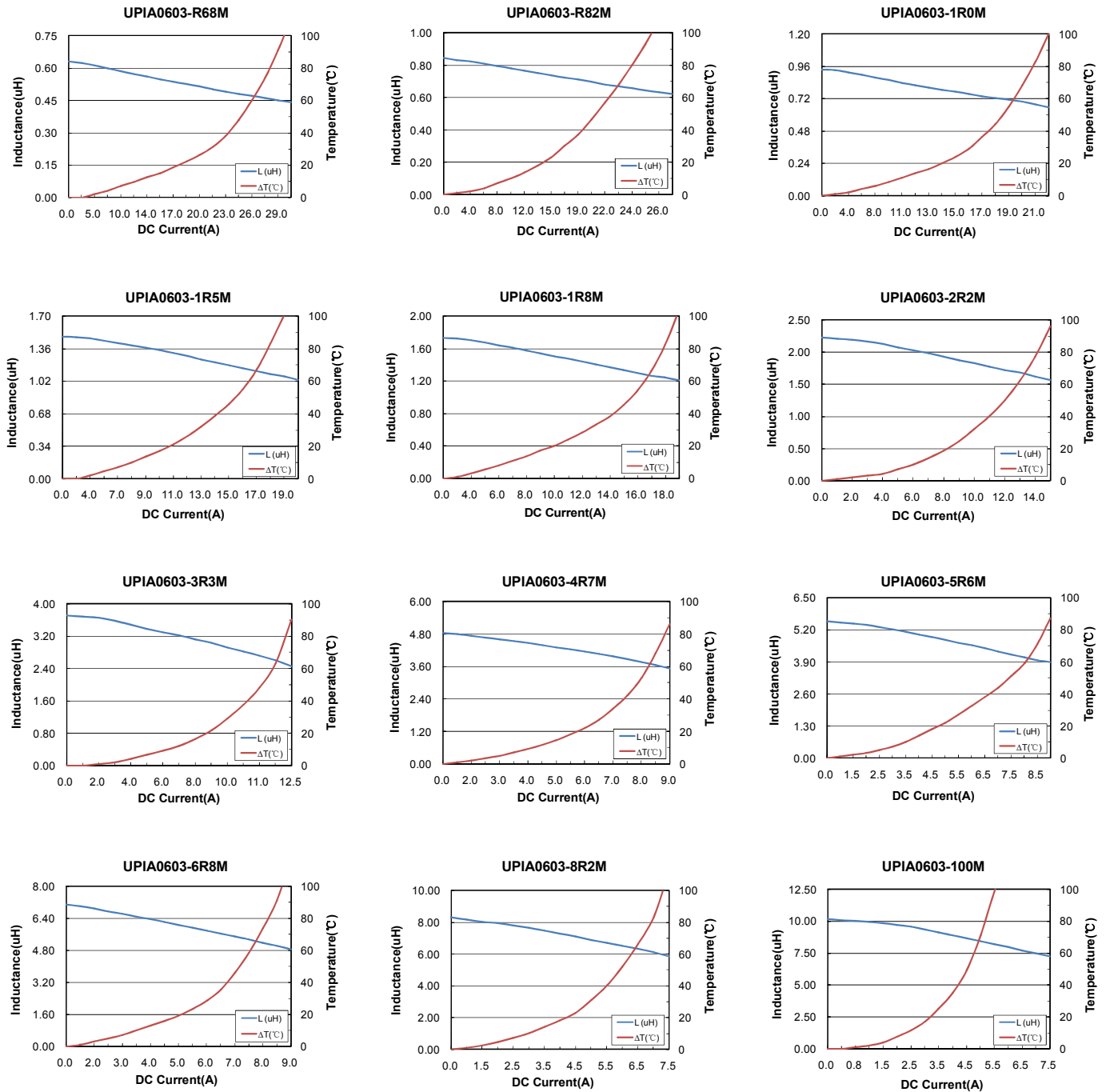
● UPIA0603 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA0603-R10M	0.10	1.0	1.7	42.0	32.5	2.0
UPIA0603-R15M	0.15	1.4	2.5	38.0	26.0	2.0
UPIA0603-R20M	0.20	1.4	3.0	36.0	24.0	2.0
UPIA0603-R22M	0.22	1.4	2.8	36.0	23.0	2.0
UPIA0603-R33M	0.33	3.4	3.9	30.0	20.0	3.0
UPIA0603-R47M	0.47	3.6	4.2	26.0	17.5	3.0
UPIA0603-R56M	0.56	4.5	4.8	24.0	16.5	3.0
UPIA0603-R68M	0.68	5.0	5.5	23.0	15.5	3.0
UPIA0603-R82M	0.82	7.5	8.0	20.0	13.0	3.0
UPIA0603-1R0M	1.0	7.8	10.0	16.0	11.0	3.0
UPIA0603-1R5M	1.5	10.9	15.0	14.0	9.0	3.0
UPIA0603-1R8M	1.8	12.9	18.0	12.0	8.0	3.0
UPIA0603-2R2M	2.2	15.5	20.0	12.0	8.0	3.0
UPIA0603-3R3M	3.3	26.5	30.0	10.0	6.0	3.0
UPIA0603-4R7M	4.7	37.6	40.0	6.5	5.5	3.0
UPIA0603-5R6M	5.6	46.0	50.0	6.0	5.0	3.0
UPIA0603-6R8M	6.8	50.5	60.0	6.0	4.5	3.0
UPIA0603-8R2M	8.2	62.5	68.0	5.5	4.0	3.0
UPIA0603-100M	10.0	94.0	105.0	5.0	3.0	3.0

Typical performance curves :

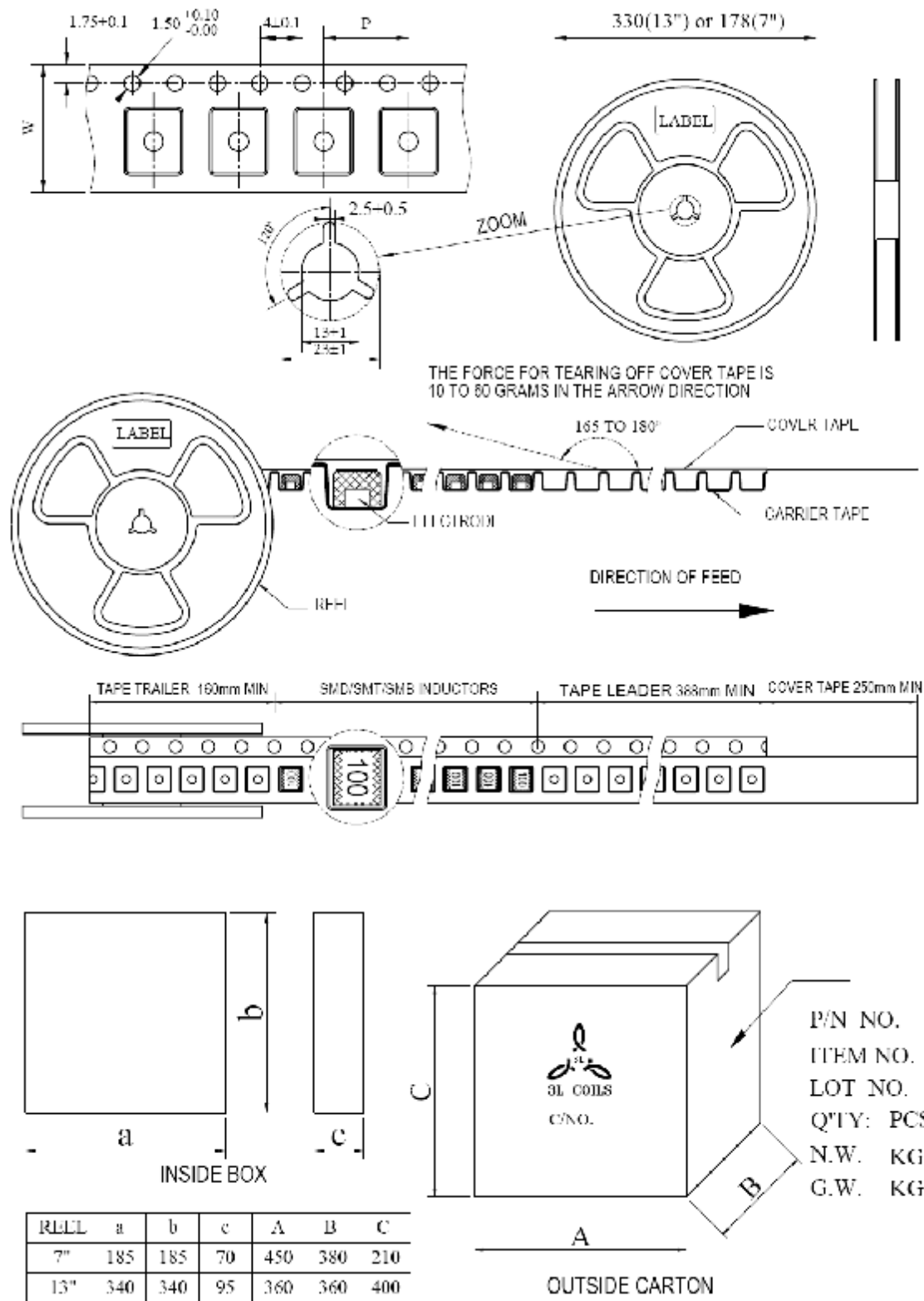


Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7''	13''	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0603	16	12		1500	1.85kg	2	3k	12k	17.0kg

UPI A0604 SERIES

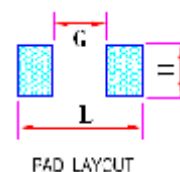
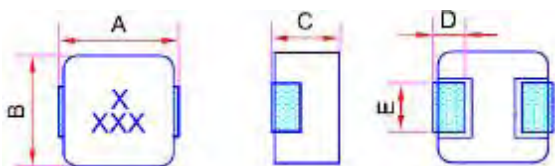
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA0604	7.8	7.0	4.2	1.6±0.3	By each P/N	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 0604 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **0604** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^{\circ}\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

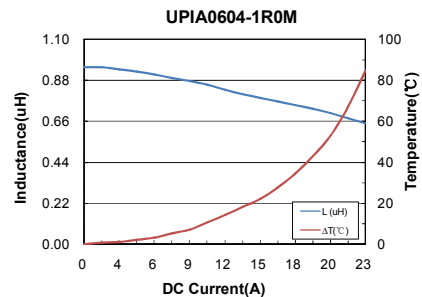
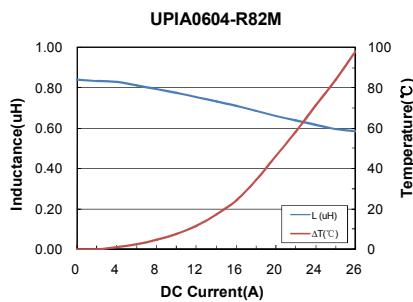
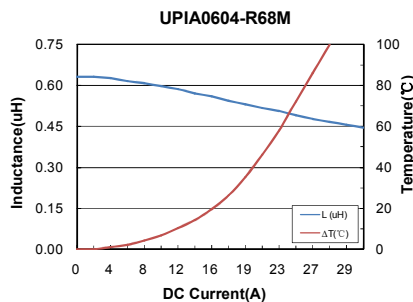
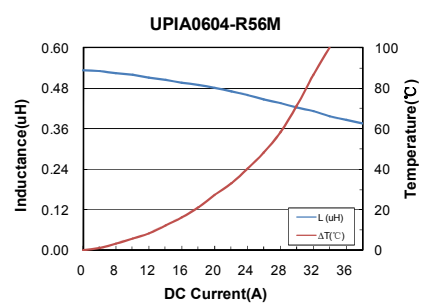
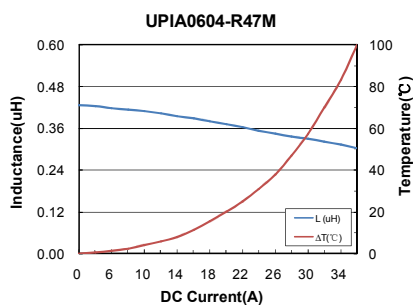
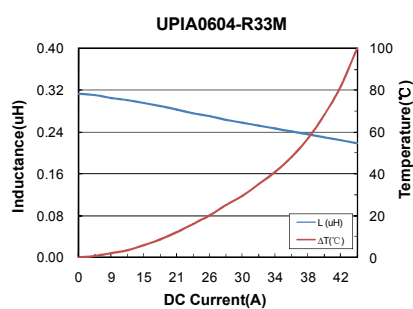
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

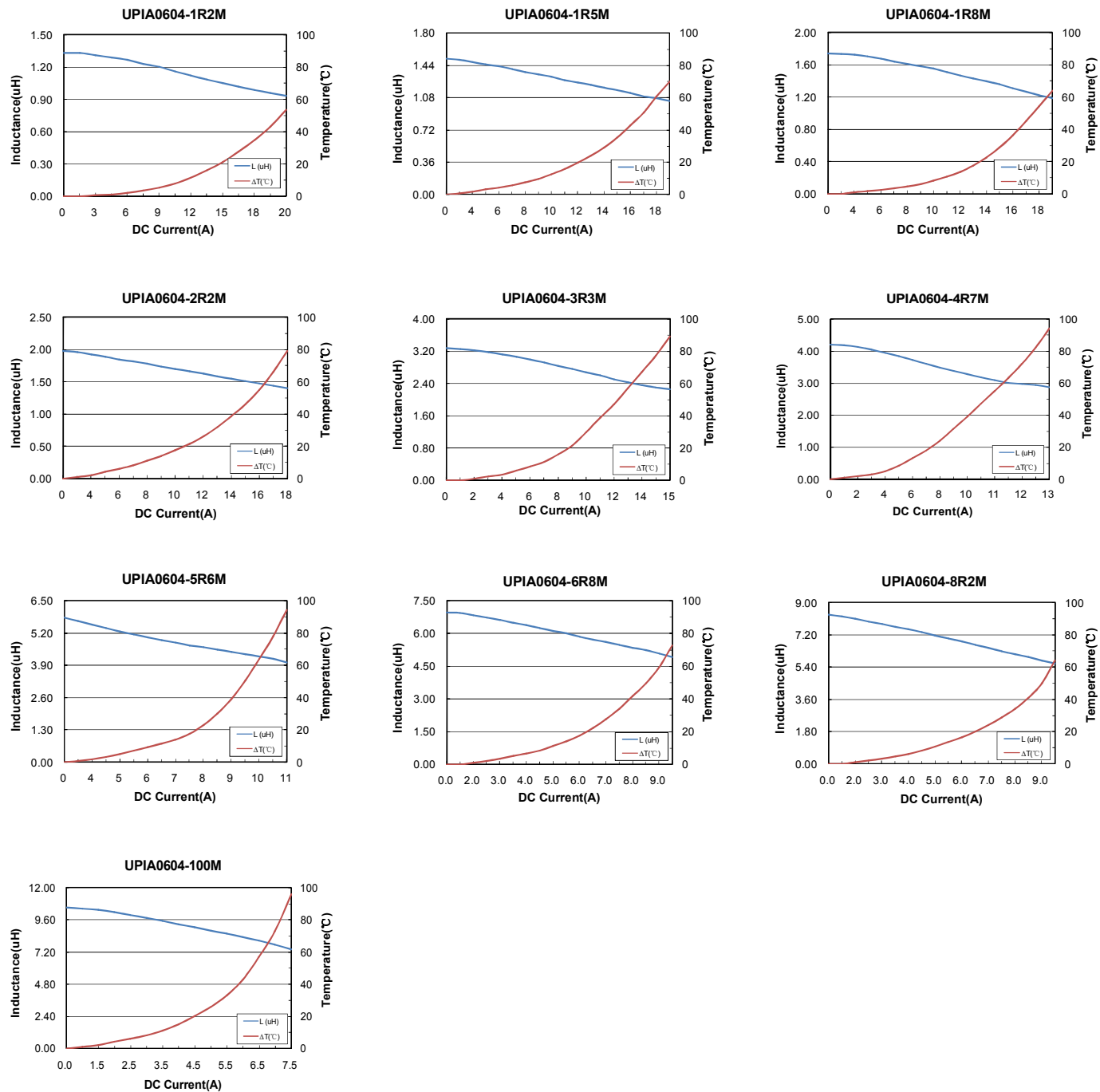
● UPIA0604 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA0604-R33M	0.33	1.9	2.1	32.0	25.0	2.0
UPIA0604-R47M	0.47	2.22	2.5	30.0	20.0	2.0
UPIA0604-R56M	0.56	2.8	3.0	29.0	19.0	2.0
UPIA0604-R68M	0.68	3.3	3.8	28.0	17.0	2.0
UPIA0604-R82M	0.82	4.85	5.0	24.0	16.0	3.0
UPIA0604-1R0M	1.0	5.3	5.8	20.0	15.0	3.0
UPIA0604-1R2M	1.2	7.2	7.6	19.0	15.0	3.0
UPIA0604-1R5M	1.5	8.4	8.4	18.0	14.0	3.0
UPIA0604-1R8M	1.8	8.5	8.8	15.0	13.0	3.0
UPIA0604-2R2M	2.2	11.2	16.0	14.0	12.0	3.0
UPIA0604-3R3M	3.3	16.6	18.0	13.0	10.0	3.0
UPIA0604-4R7M	4.7	20.2	21.0	9.0	7.0	3.0
UPIA0604-5R6M	5.6	28.7	30.0	7.0	5.5	3.0
UPIA0604-6R8M	6.8	28.7	30.0	7.0	5.5	3.0
UPIA0604-8R2M	8.2	33.5	36.0	6.5	4.5	3.0
UPIA0604-100M	10.0	53.1	60.0	5.0	4.5	3.0

Typical performance curves :

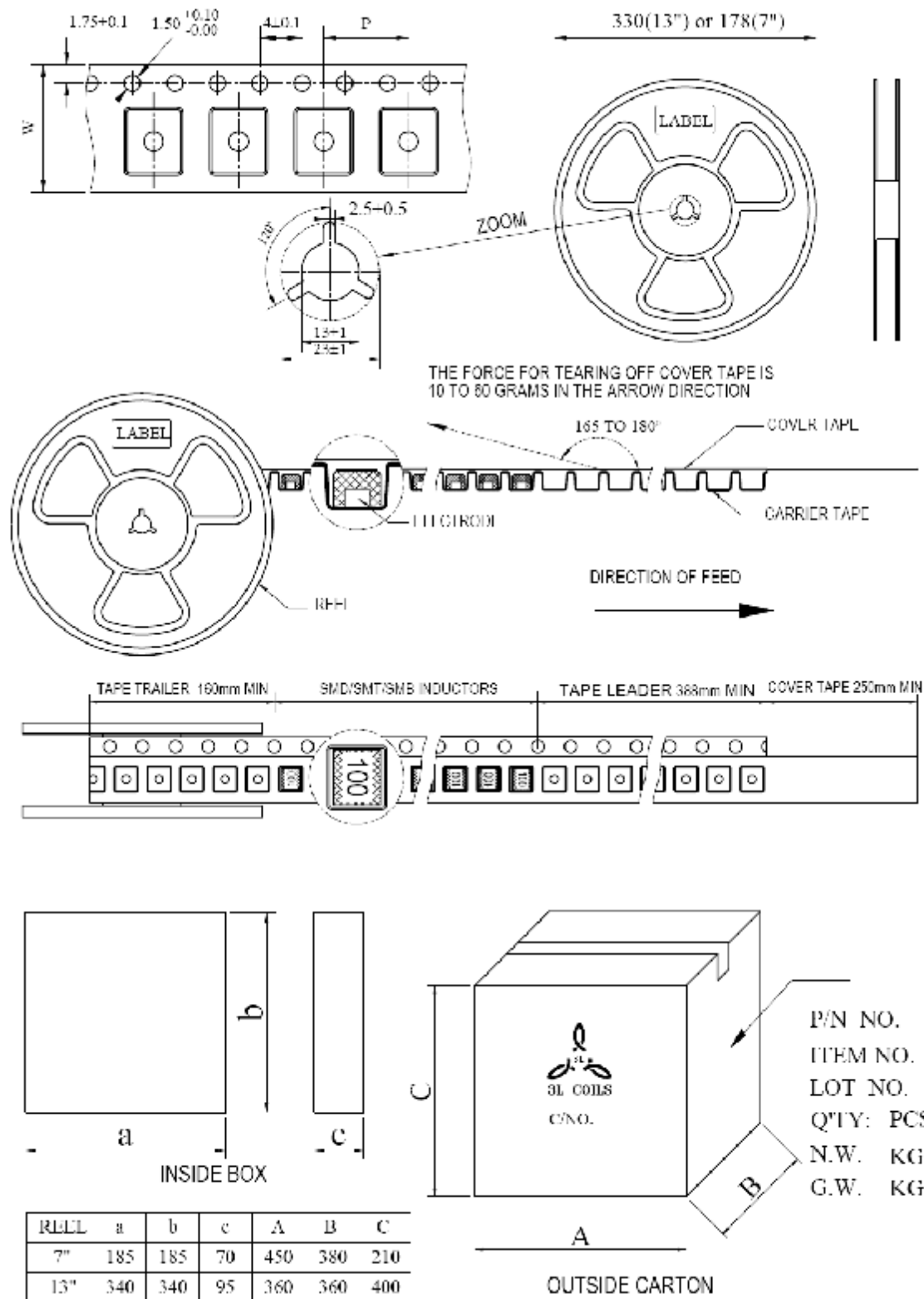


Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

- **Tape and reel specification**



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0604	16	12		1000	1.75kg	2	2k	8k	16.0kg

UPI A1004 SERIES

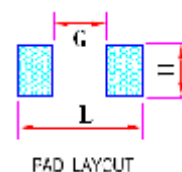
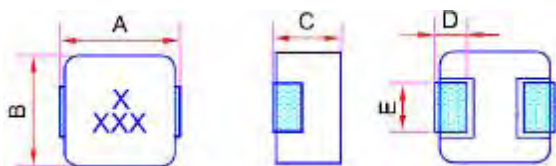
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA1004	11.8	10.5	4.2	2.3±0.3	3.0±0.5	5.4	4.5	12.4

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 1004 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type** .
- (3) Dimensions : **1004** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

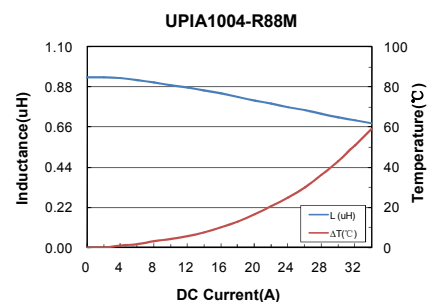
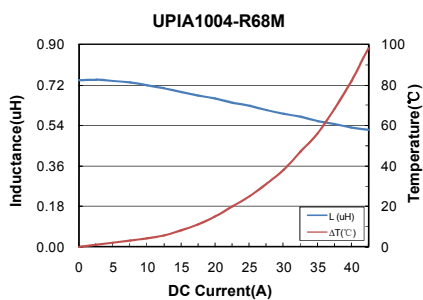
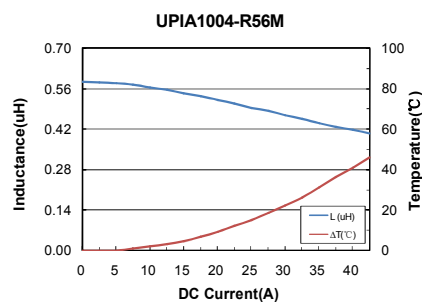
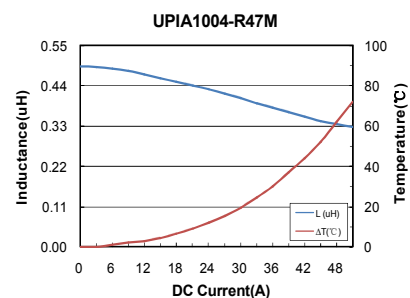
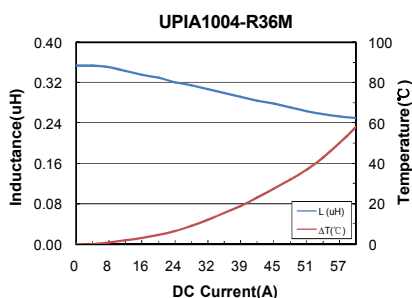
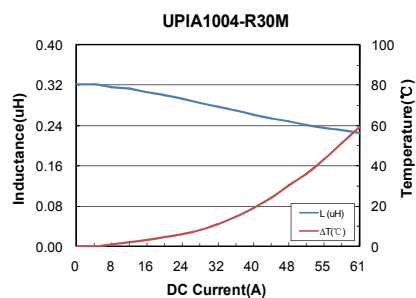
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

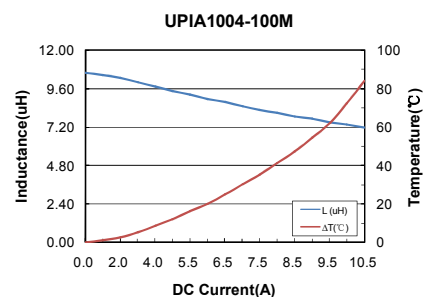
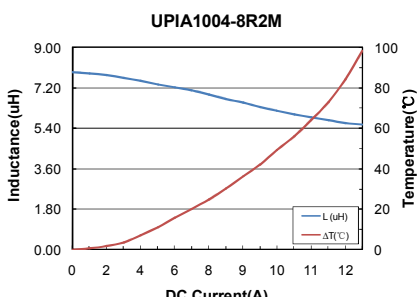
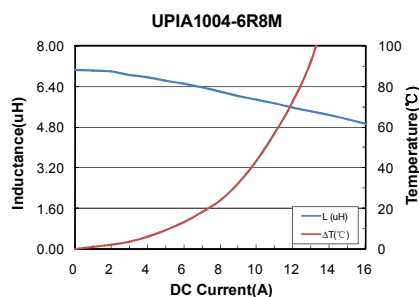
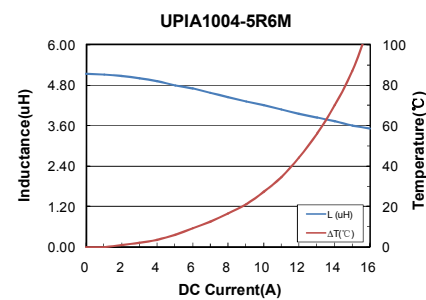
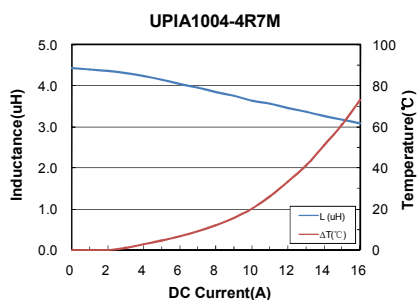
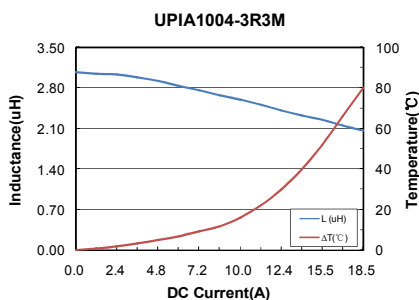
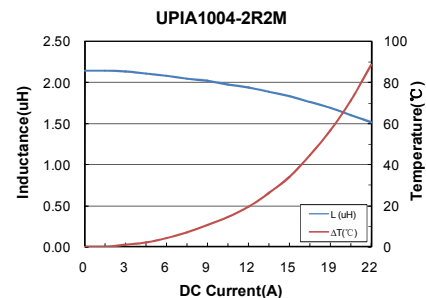
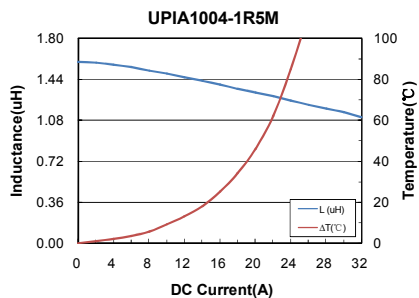
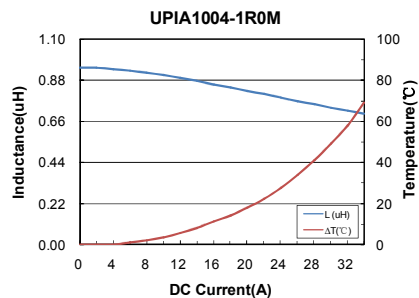
● UPIA1004 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA1004-R30M	0.30	1.0	1.4	40.0	28.0	3.0
UPIA1004-R36M	0.36	1.0	1.4	40.0	28.0	3.0
UPIA1004-R47M	0.47	1.4	1.6	38.0	26.0	3.0
UPIA1004-R56M	0.56	1.5	1.9	36.0	25.0	3.0
UPIA1004-R68M	0.68	1.7	2.4	32.0	23.0	3.0
UPIA1004-R88M	0.88	2.4	3.0	30.0	21.0	3.0
UPIA1004-1R0M	1.0	2.7	3.5	28.0	20.0	3.0
UPIA1004-1R5M	1.5	7.1	7.5	20.0	12.0	3.0
UPIA1004-2R2M	2.2	7.5	8.56	16.5	11.5	3.0
UPIA1004-3R3M	3.3	9.7	11.8	14.0	10.0	3.0
UPIA1004-4R7M	4.7	12.5	13.5	13.0	8.0	3.0
UPIA1004-5R6M	5.6	15.5	16.0	12.0	7.0	3.0
UPIA1004-6R8M	6.8	21.3	24.0	9.50	7.0	3.0
UPIA1004-8R2M	8.2	29.1	32.5	8.00	5.0	3.0
UPIA1004-100M	10.0	31.5	35.0	7.00	5.0	3.0

Typical performance curves :

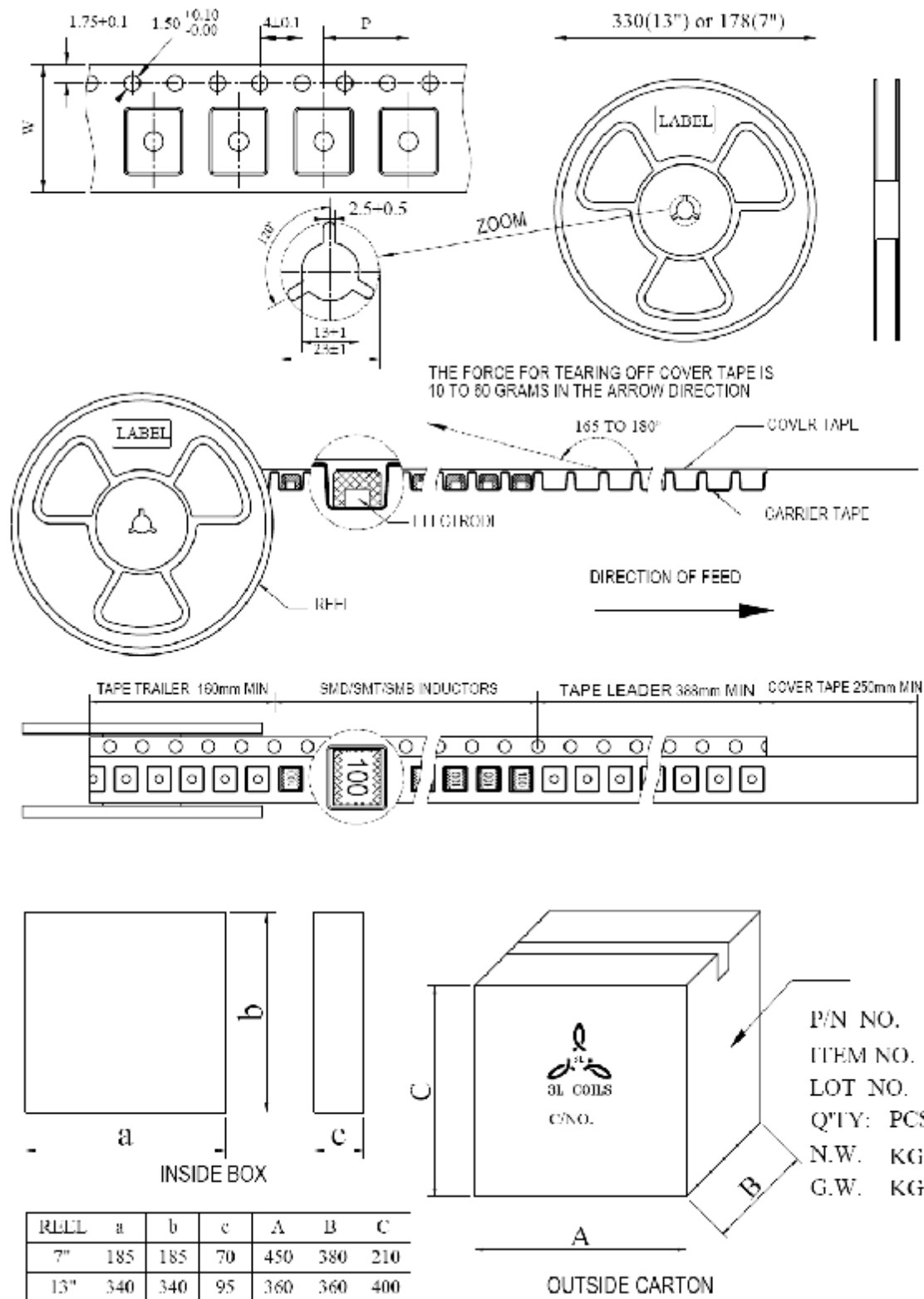


Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

- **Tape and reel specification**



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1004	24	16		900	2.57kg	2	1.8k	7.2k	22.3kg

UPI A1005 SERIES

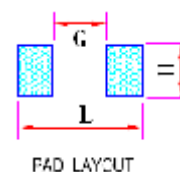
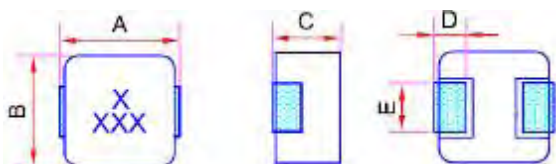
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA1005	11.8	10.5	5.0	2.3±0.3	3.0±0.5	5.4	4.5	12.4

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 1005 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **1005** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L₀ to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately ΔT=40°C without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

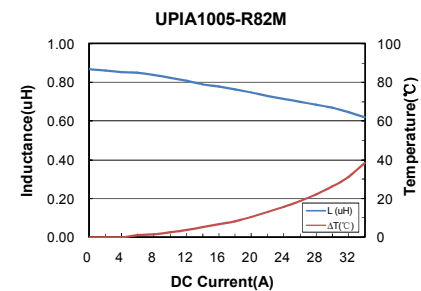
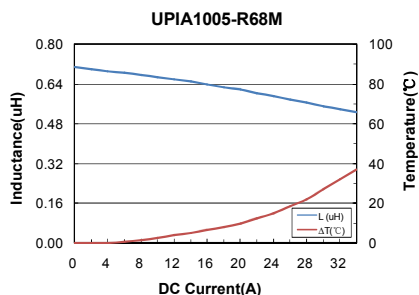
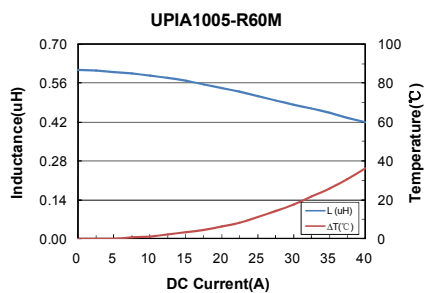
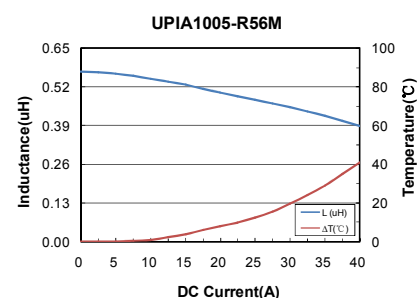
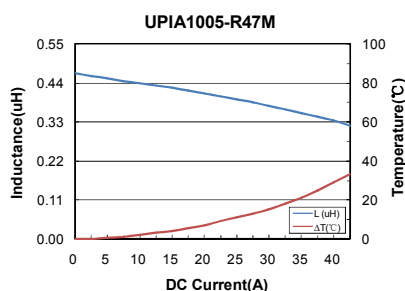
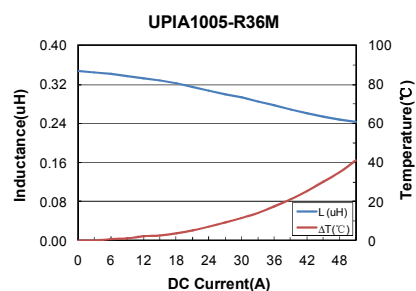
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

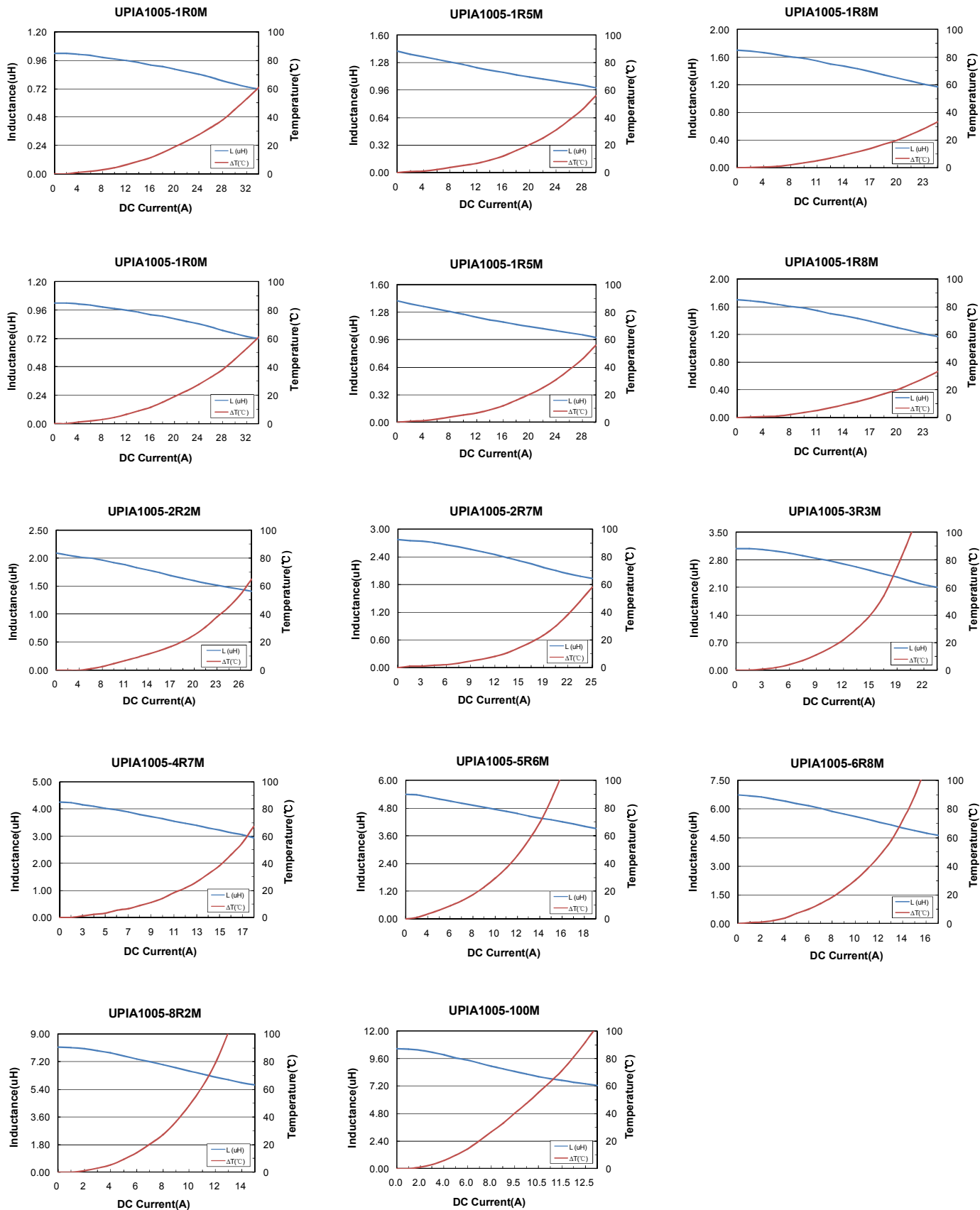
● UPIA1005 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA1005-R36M	0.36	0.7	0.92	40.0	35.0	3.0
UPIA1005-R47M	0.47	0.92	1.04	38.0	32.0	3.0
UPIA1005-R56M	0.56	1.1	1.21	36.0	30.0	3.0
UPIA1005-R60M	0.60	1.25	1.5	32.0	29.2	3.0
UPIA1005-R68M	0.68	1.35	1.5	32.0	29.2	3.0
UPIA1005-R82M	0.82	1.55	1.86	30.0	26.0	3.0
UPIA1005-1R0M	1.0	2.1	2.53	28.0	24.0	3.0
UPIA1005-1R5M	1.5	2.7	3.02	22.0	20.0	3.0
UPIA1005-1R8M	1.8	3.5	4.03	20.0	18.0	3.0
UPIA1005-2R2M	2.2	4.1	4.6	20.0	17.0	3.0
UPIA1005-2R7M	2.7	7.3	8.5	18.0	14.0	3.0
UPIA1005-3R3M	3.3	8.2	10.0	15.0	12.0	3.0
UPIA1005-4R7M	4.7	9.2	12.0	13.0	10.0	3.0
UPIA1005-5R6M	5.6	14.3	16.0	12.0	9.0	3.0
UPIA1005-6R8M	6.8	16.0	20.0	10.0	8.0	3.0
UPIA1005-8R2M	8.2	22.4	24.0	9.0	7.5	3.0
UPIA1005-100M	10.0	24.7	28.0	8.0	7.0	3.0

Typical performance curves :



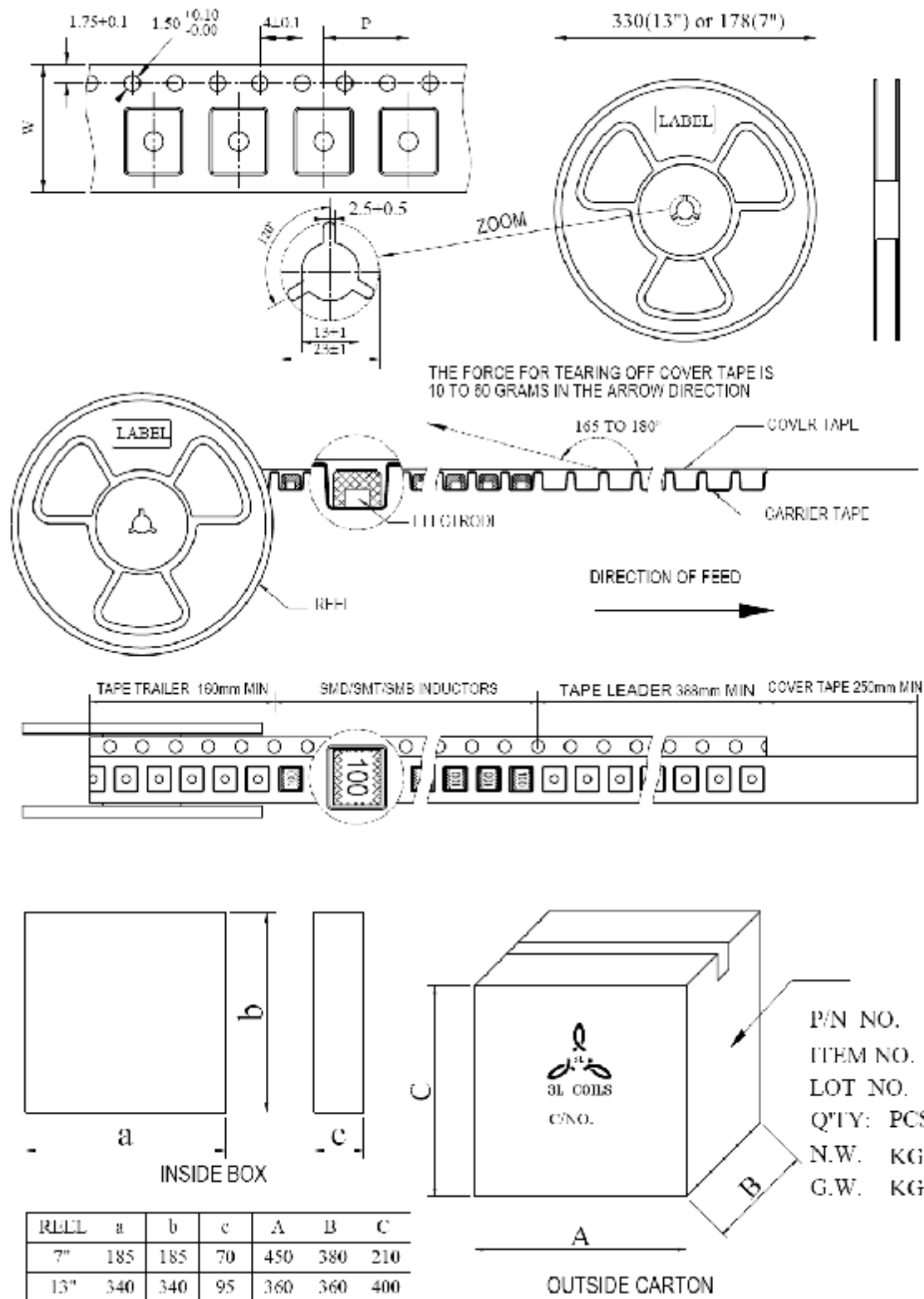
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1005	24	16		800	2.4 kg	2	1.6k	6.4k	21.5kg

UPI A1203 SERIES

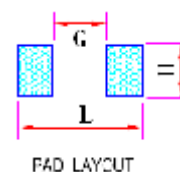
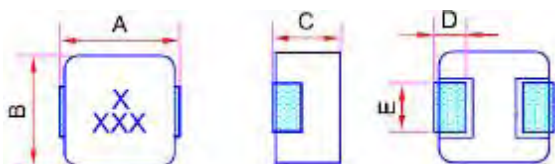
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA1203	13.9	13.5	3.7	2.3±0.3	By each P/N	8.0	5.0	14.5

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 1203 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **1203** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

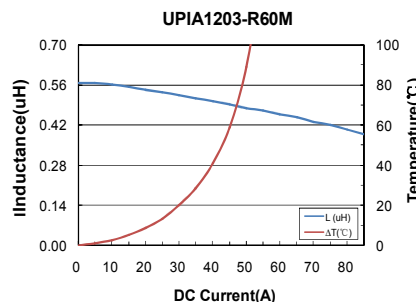
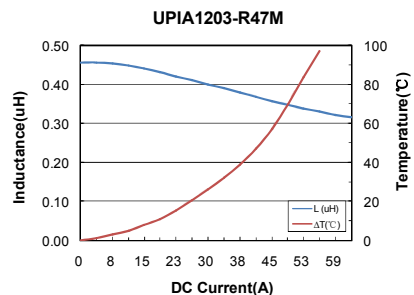
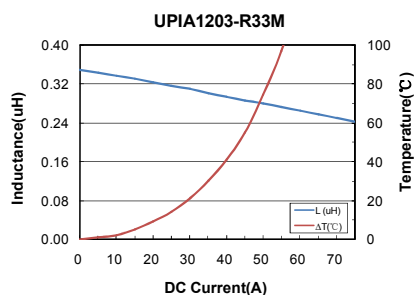
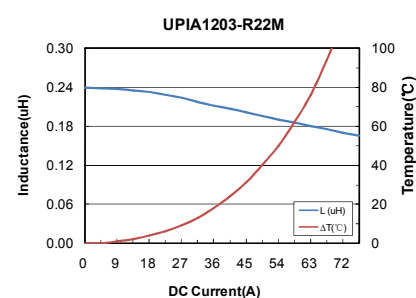
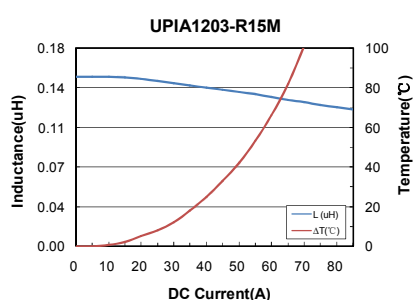
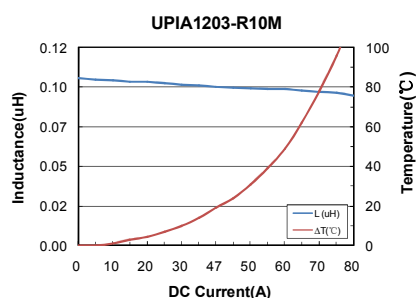
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

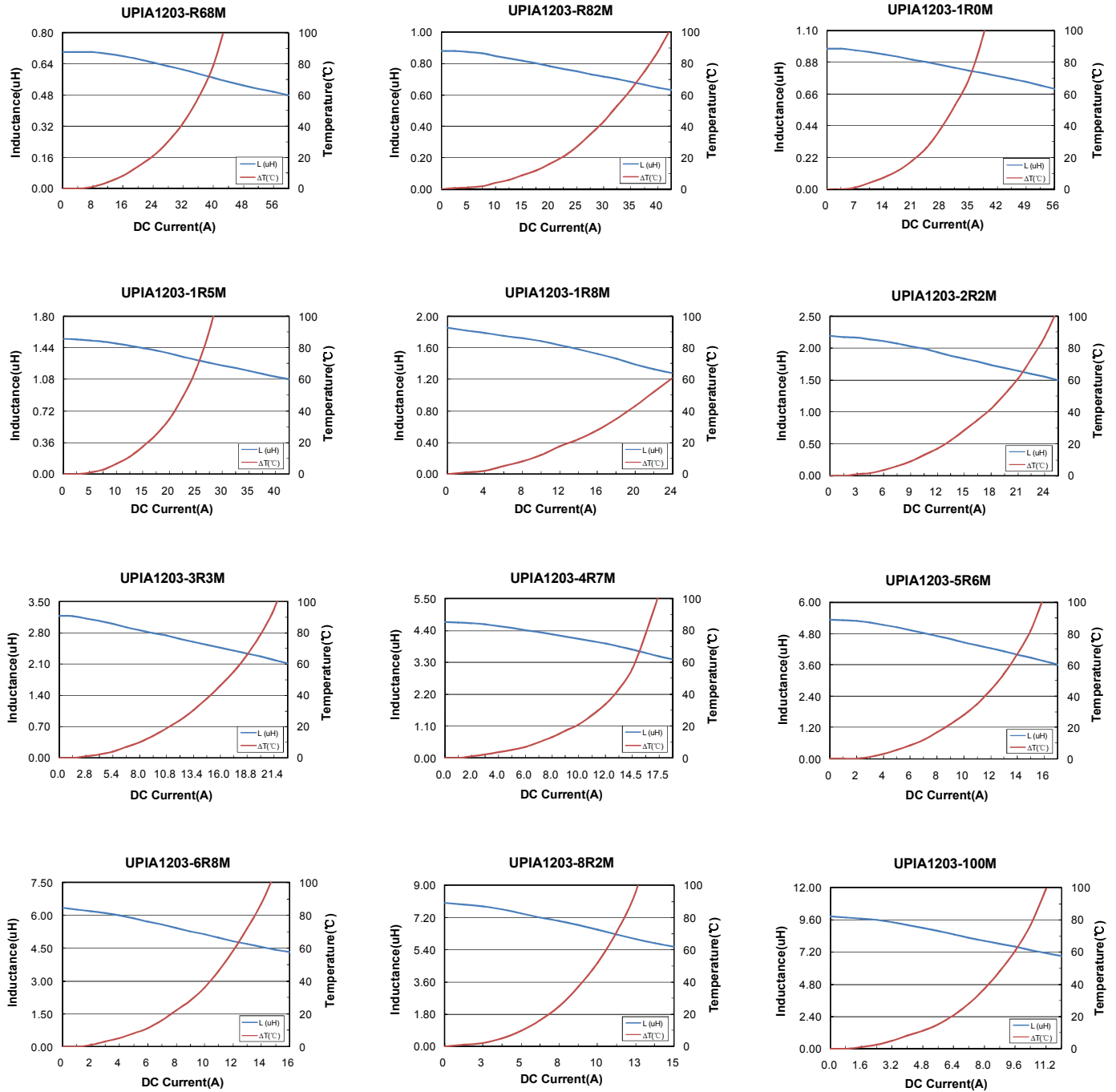
● UPIA1203 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA1203-R10M	0.10	0.6	0.96	56.0	43.0	3.5
UPIA1203-R15M	0.15	0.9	1.2	50.0	41.0	3.5
UPIA1203-R22M	0.22	0.82	1.3	50.0	38.5	3.5
UPIA1203-R33M	0.33	1.25	1.5	50.0	36.5	3.5
UPIA1203-R47M	0.47	1.3	2.0	44.0	32.0	3.5
UPIA1203-R60M	0.60	2.2	2.5	42.0	29.0	3.0
UPIA1203-R68M	0.68	2.45	2.5	40.0	28.0	3.0
UPIA1203-R82M	0.82	2.3	3.0	38.0	25.0	3.0
UPIA1203-1R0M	1.0	3.2	3.5	36.0	24.0	3.0
UPIA1203-1R5M	1.5	5.1	5.5	28.0	19.0	3.0
UPIA1203-1R8M	1.8	5.7	7.0	24.0	16.5	3.0
UPIA1203-2R2M	2.2	6.7	8.0	20.0	16.0	3.0
UPIA1203-3R3M	3.3	9.7	12.0	18.0	12.0	3.0
UPIA1203-4R7M	4.7	14.0	15.0	16.0	10.0	3.0
UPIA1203-5R6M	5.6	16.7	18.0	14.0	9.5	3.0
UPIA1203-6R8M	6.8	17.5	22.0	13.0	9.0	3.0
UPIA1203-8R2M	8.2	25.5	28.0	11.0	8.5	3.0
UPIA1203-100M	10.0	33.7	35.0	10.0	7.0	3.0

Typical performance curves :



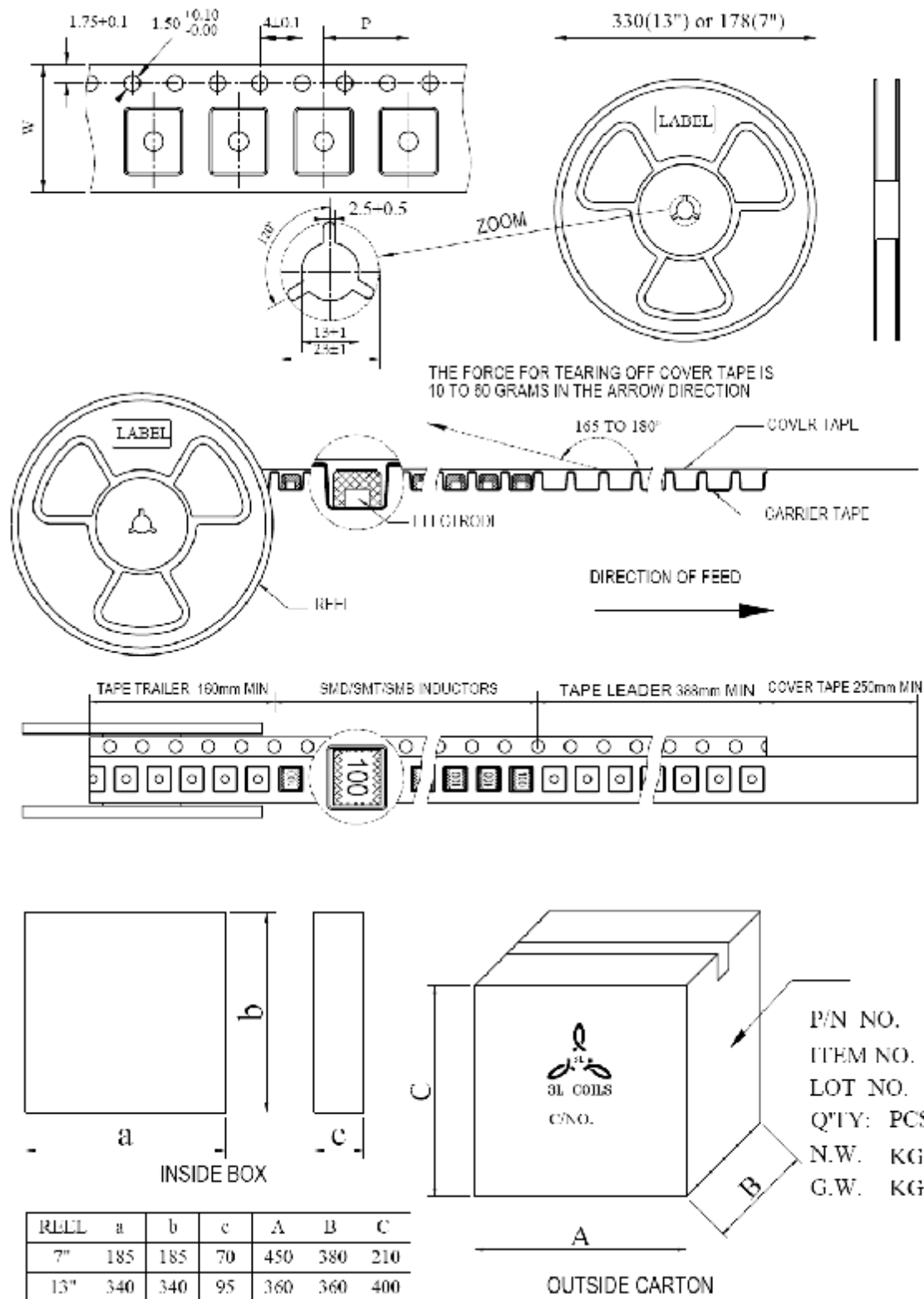
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7''	13''	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1203	24	16		500	2.75kg	2	1.0k	4k	24.0kg

UPI A1205 SERIES

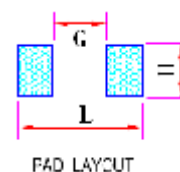
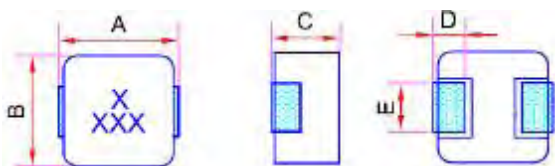
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA1205	13.9	13.5	5.2	2.3±0.3	By each P/N	8.0	5.0	14.5

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 1205 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **1205** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L₀ to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately ΔT=40°C without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

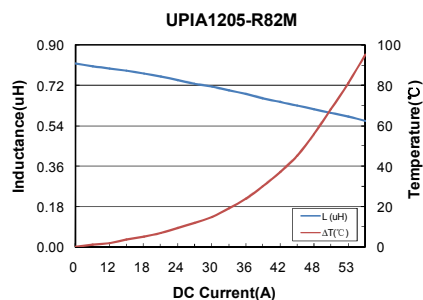
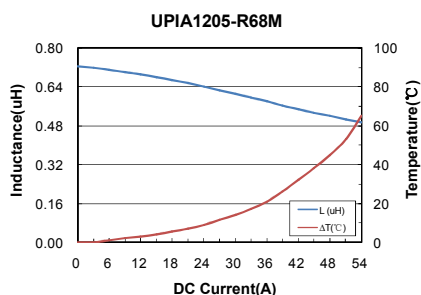
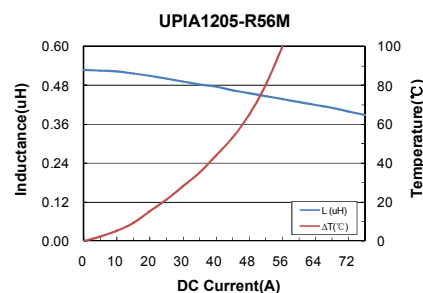
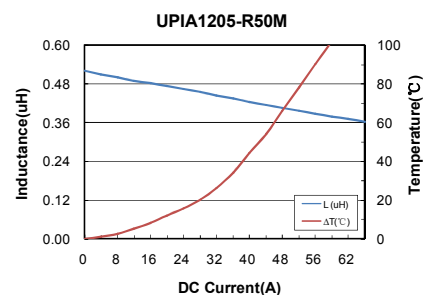
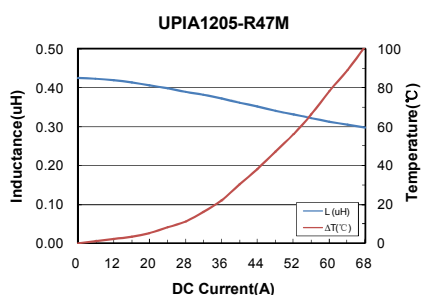
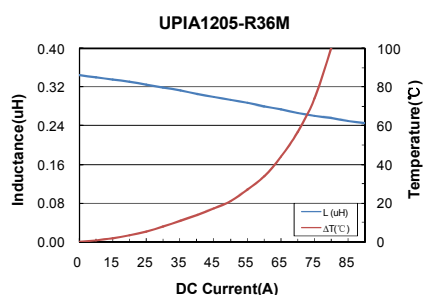
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

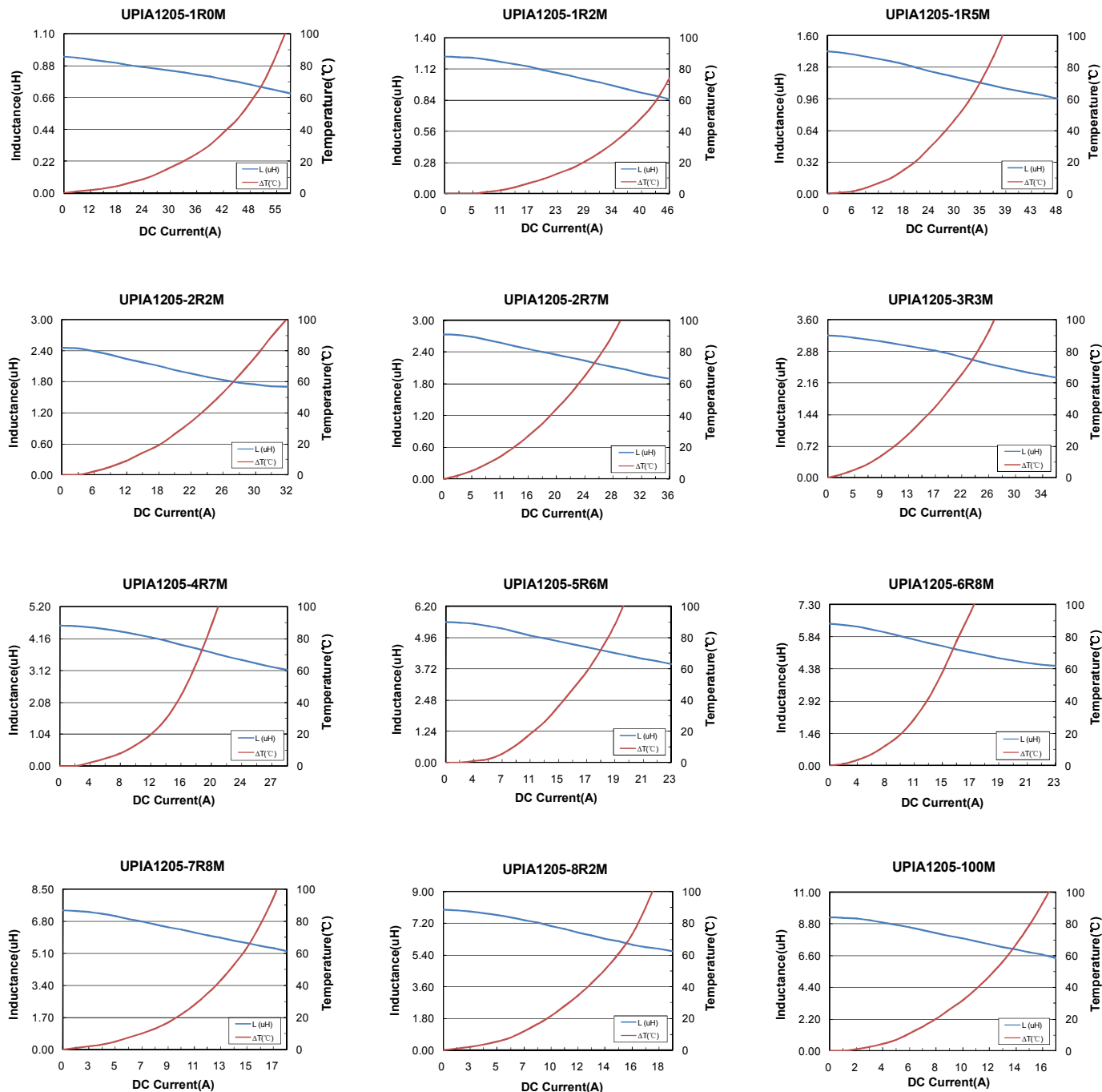
● UPIA1205 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA1205-R36M	0.36	1.0	1.1	75.0	41.0	3.5
UPIA1205-R47M	0.47	1.1	1.3	65.0	38.0	3.5
UPIA1205-R50M	0.50	1.1	1.5	55.0	36.0	3.5
UPIA1205-R56M	0.56	1.4	1.5	55.0	36.0	3.5
UPIA1205-R68M	0.68	1.4	1.7	54.0	34.0	3.5
UPIA1205-R82M	0.82	2.1	2.3	53.0	31.0	3.5
UPIA1205-1R0M	1.0	2.2	2.5	50.0	29.0	3.5
UPIA1205-1R2M	1.2	2.2	2.5	46.0	25.0	3.5
UPIA1205-1R5M	1.5	3.5	4.1	48.0	23.0	3.0
UPIA1205-2R2M	2.2	4.4	5.5	32.0	20.0	3.0
UPIA1205-2R7M	2.7	7.2	8.2	32.0	18.0	3.0
UPIA1205-3R3M	3.3	7.8	9.2	32.0	15.0	3.0
UPIA1205-4R7M	4.7	13.7	15.0	27.0	12.0	3.0
UPIA1205-5R6M	5.6	14.2	16.5	22.0	11.5	3.0
UPIA1205-6R8M	6.8	17.2	18.5	21.0	11.0	3.0
UPIA1205-7R8M	7.8	17.2	20.5	18.0	10.0	3.0
UPIA1205-8R2M	8.2	17.5	22.5	12.0	9.50	3.0
UPIA1205-100M	10.0	21.5	25.5	9.5	9.0	3.0

Typical performance curves :



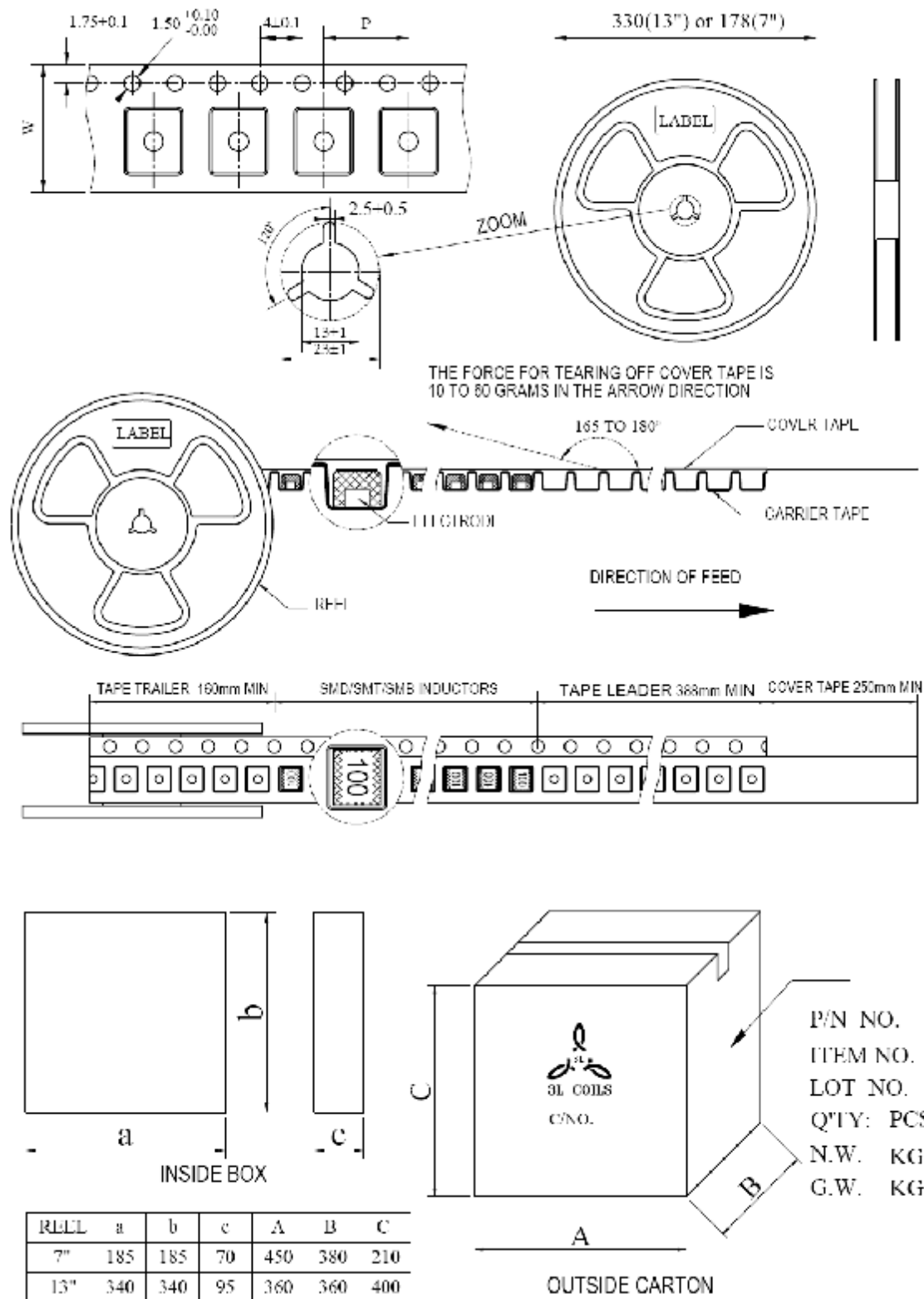
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1205	24	16		500	2.82kg	2	1.0k	4k	24.5kg

UPI A1207 SERIES

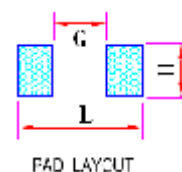
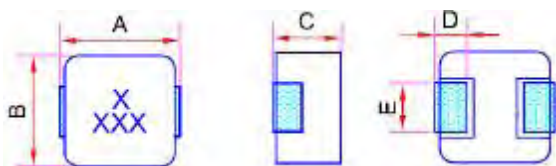
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIA1207	13.9	13.5	7.0	2.3±0.3	By each P/N	8.0	5.0	14.5

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI A 1207 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A-Powder Type**
- (3) Dimensions : **1207** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L₀ to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately ΔT=40°C without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

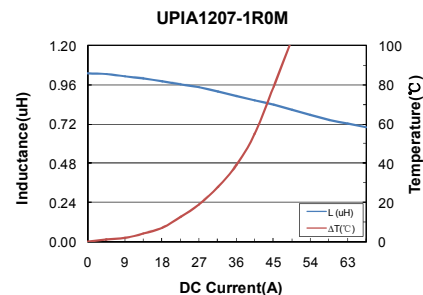
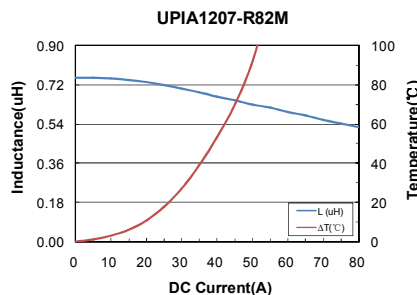
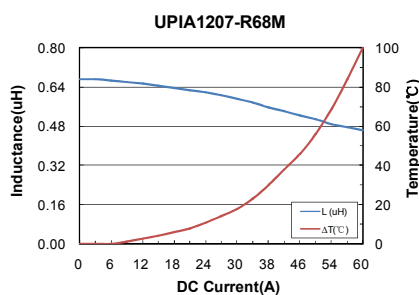
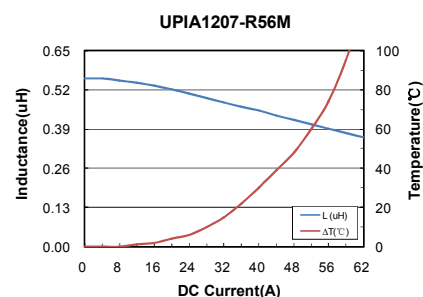
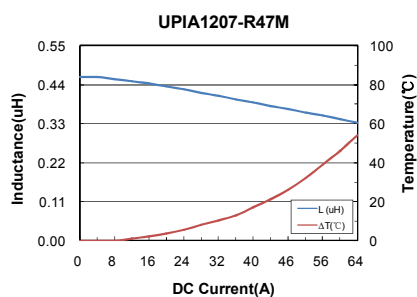
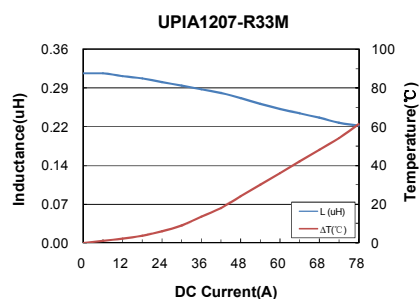
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

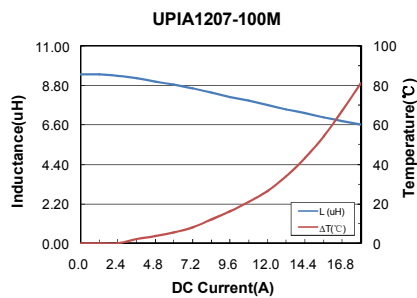
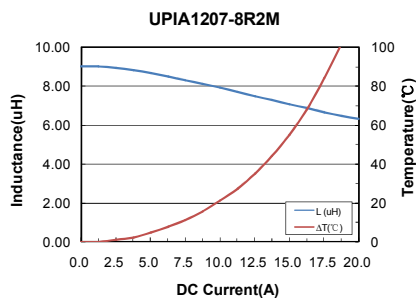
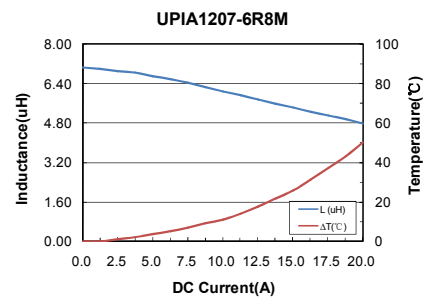
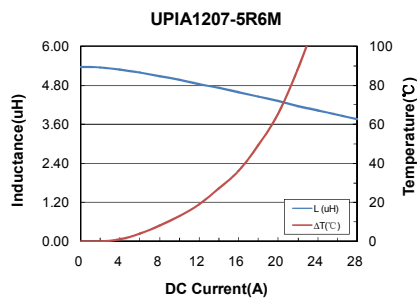
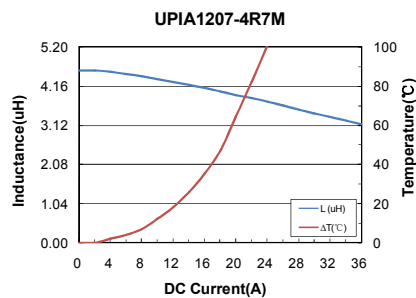
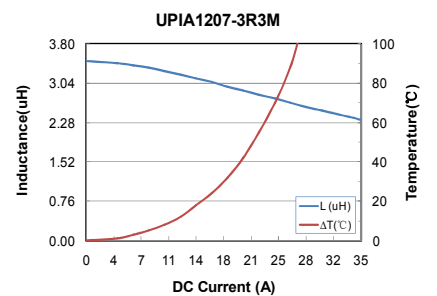
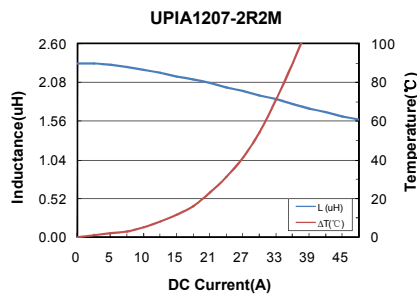
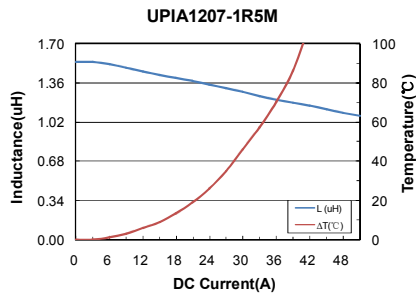
● UPIA1207 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIA1207-R33M	0.33	0.8	0.9	65.0	46.0	3.5
UPIA1207-R47M	0.47	1.0	1.2	63.0	41.0	3.5
UPIA1207-R56M	0.56	1.2	1.4	62.0	37.0	3.5
UPIA1207-R68M	0.68	1.45	1.6	60.0	35.0	3.5
UPIA1207-R82M	0.82	1.75	1.9	50.0	33.0	3.5
UPIA1207-1R0M	1.0	1.85	2.0	50.0	32.0	3.5
UPIA1207-1R5M	1.5	2.6	3.0	45.0	27.0	3.5
UPIA1207-2R2M	2.2	3.7	4.2	40.0	22.0	3.5
UPIA1207-3R3M	3.3	6.2	6.8	35.0	18.0	3.0
UPIA1207-4R7M	4.7	7.4	10.0	30.0	15.0	3.0
UPIA1207-5R6M	5.6	9.7	11.2	26.5	13.5	3.0
UPIA1207-6R8M	6.8	7.4	14.0	17.0	12.0	3.0
UPIA1207-8R2M	8.2	13.4	15.5	16.0	10.5	3.0
UPIA1207-100M	10.0	13.2	16.8	15.5	10.0	3.0

Typical performance curves :



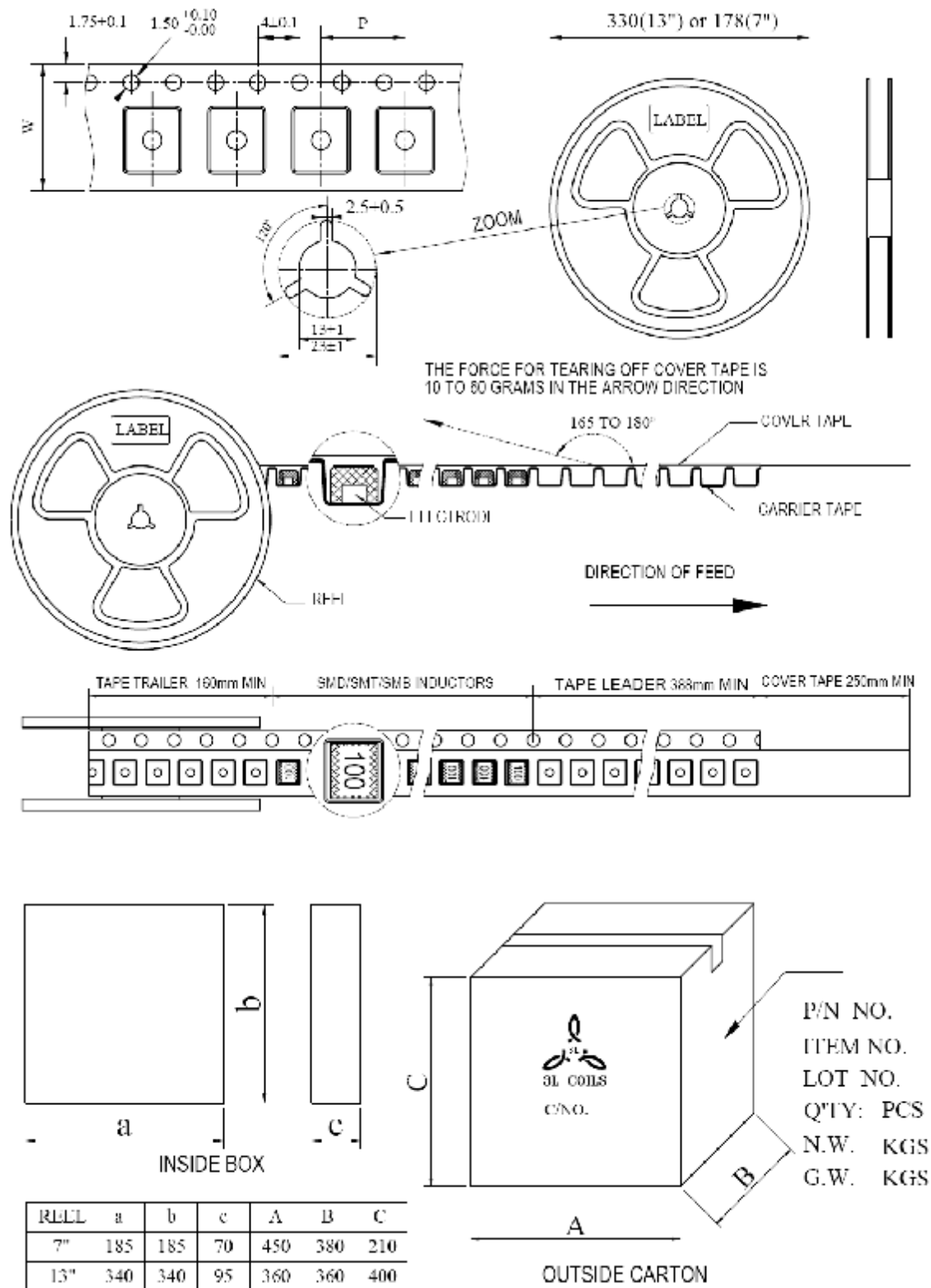
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1207	24	16		400	3.1kg	2	0.8k	3.2k	22.8kg

UPI AS0603 SERIES

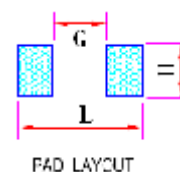
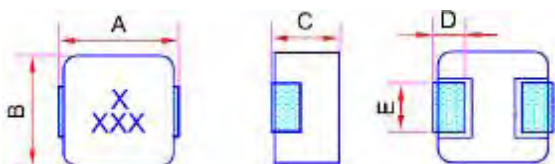
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIAS0603	7.3	6.72	3.0	1.6±0.3	By each P/N	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **A** type frequency up to **1MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Product Identification :

UPI AS 0603 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **A**-Powder Type **S**-small Size.
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Handling and precautions :

- Please contact us before cleaning this product.

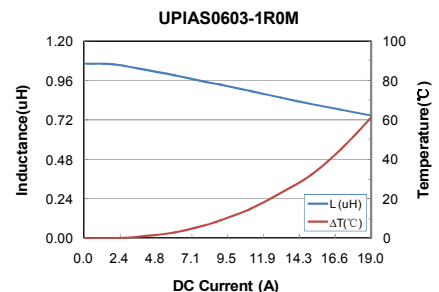
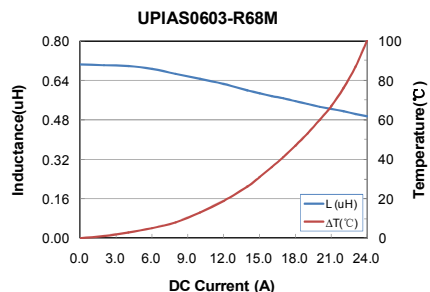
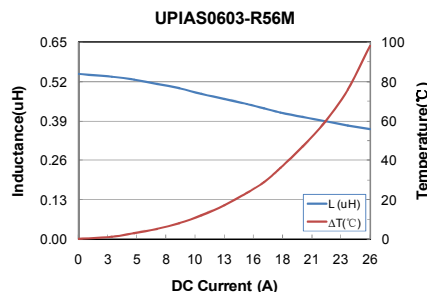
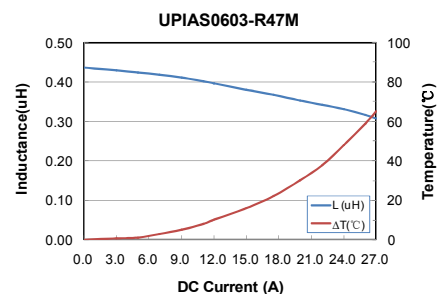
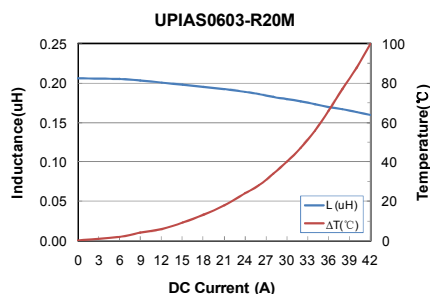
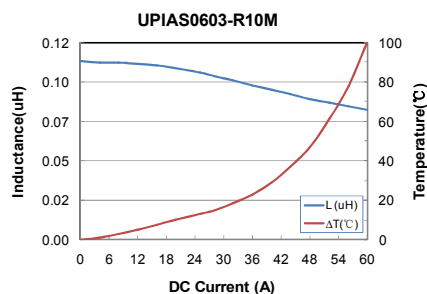
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

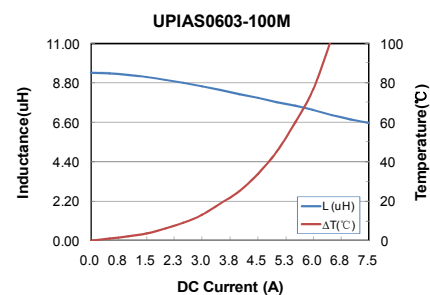
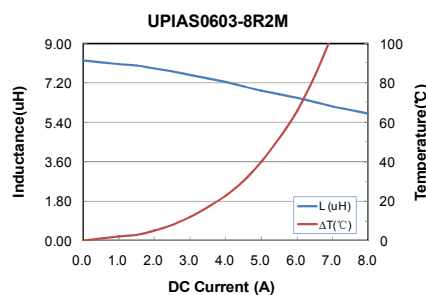
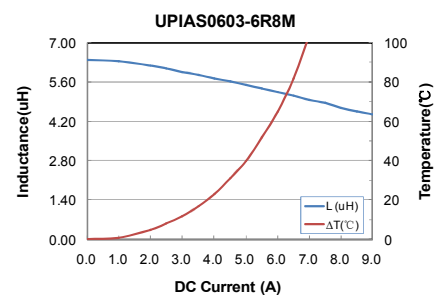
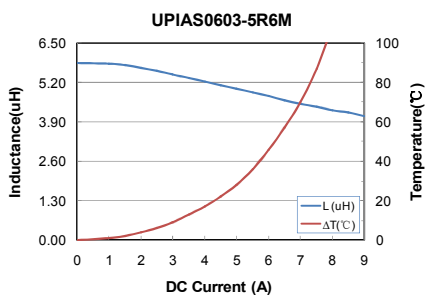
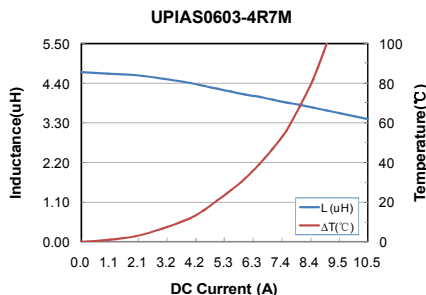
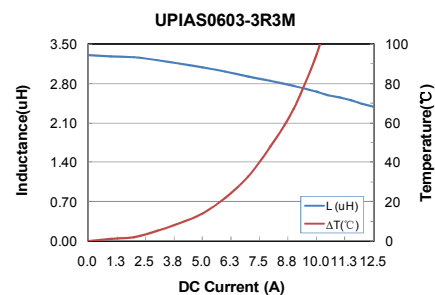
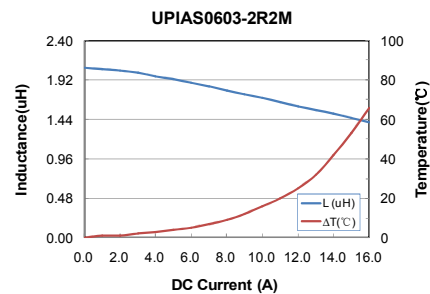
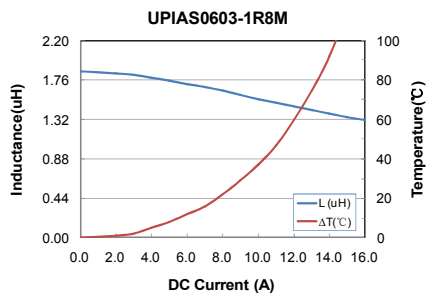
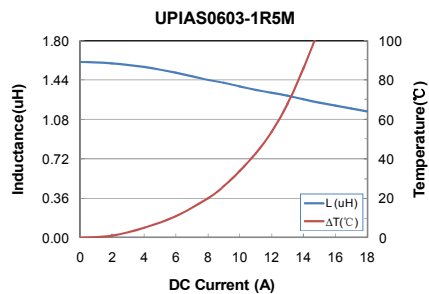
● UPIAS0603 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIAS0603-R10M	0.10	0.9	1.7	42.0	32.0	2.0
UPIAS0603-R15M	0.15	1.5	2.5	38.0	26.0	2.0
UPIAS0603-R20M	0.20	1.3	3.0	36.0	24.0	2.0
UPIAS0603-R47M	0.47	3.6	4.2	26.0	17.5	3.0
UPIAS0603-R56M	0.56	4.3	4.8	24.0	16.5	3.0
UPIAS0603-1R0M	1.0	7.8	10.0	16.0	11.0	3.0
UPIAS0603-1R5M	1.5	12.7	15.0	14.0	9.0	3.0
UPIAS0603-1R8M	1.8	12.7	18.0	12.0	8.0	3.0
UPIAS0603-2R2M	2.2	15.2	20.0	12.0	8.0	3.0
UPIAS0603-3R3M	3.3	27.5	30.0	10.0	6.0	3.0
UPIAS0603-4R7M	4.7	37.0	40.0	6.5	5.5	3.0
UPIAS0603-6R8M	6.8	52.0	60.0	6.0	4.5	3.0
UPIAS0603-8R2M	8.2	63.5	68.0	5.5	4.0	3.0
UPIAS0603-100M	10.0	78.0	105.0	5.0	3.0	3.0

Typical performance curves :



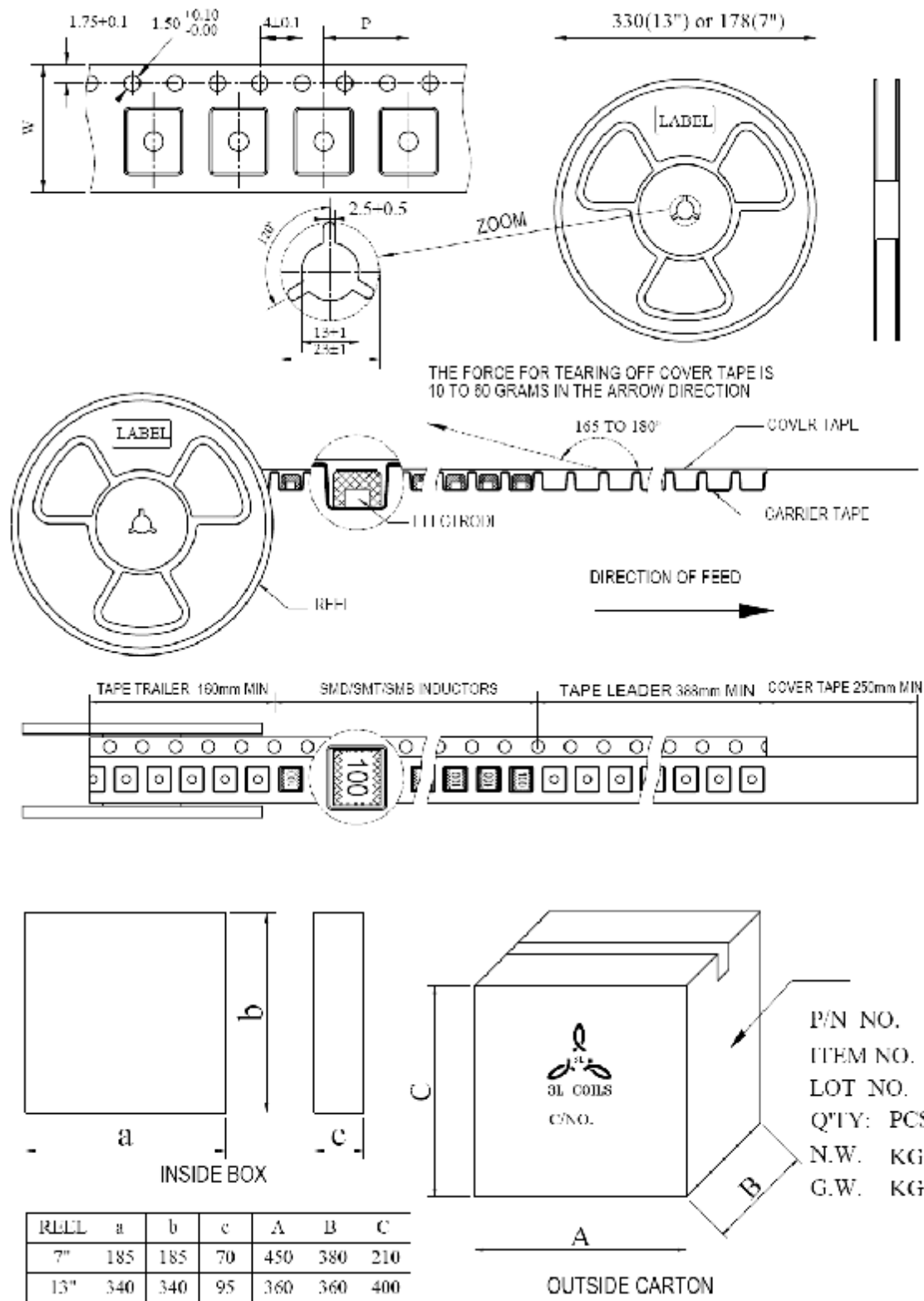
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



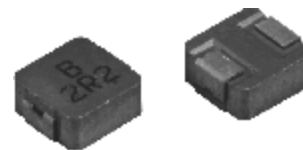
Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0603	16	12		1500	1.85kg	2	3k	12k	17.0kg

UPI B0522 SERIES

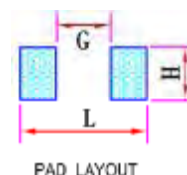
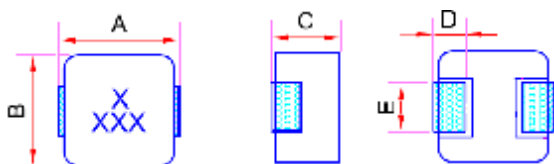
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIB0522	5.75	5.44	2.2	1.02±0.3	2.54±0.3	2.16	2.79	5.99

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI B 0522 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B-Powder Type .**
- (3) Dimensions : **0522** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

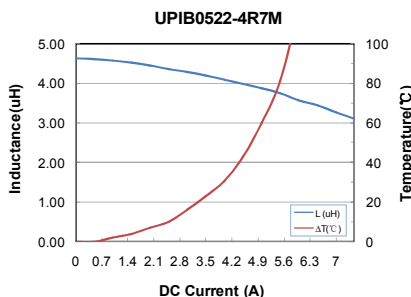
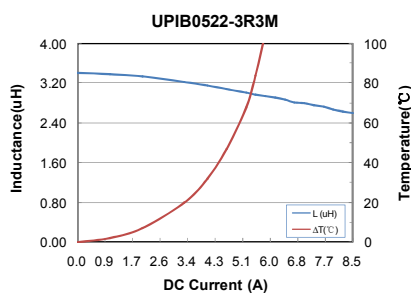
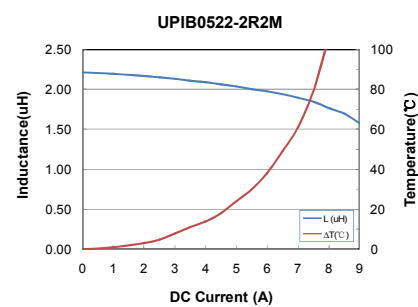
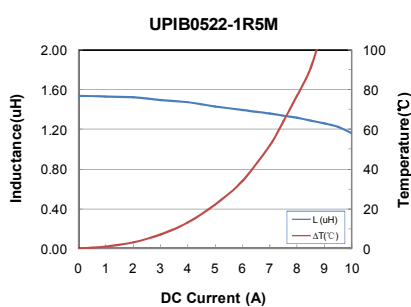
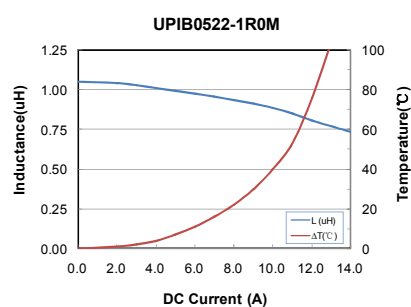
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIB 0522 series

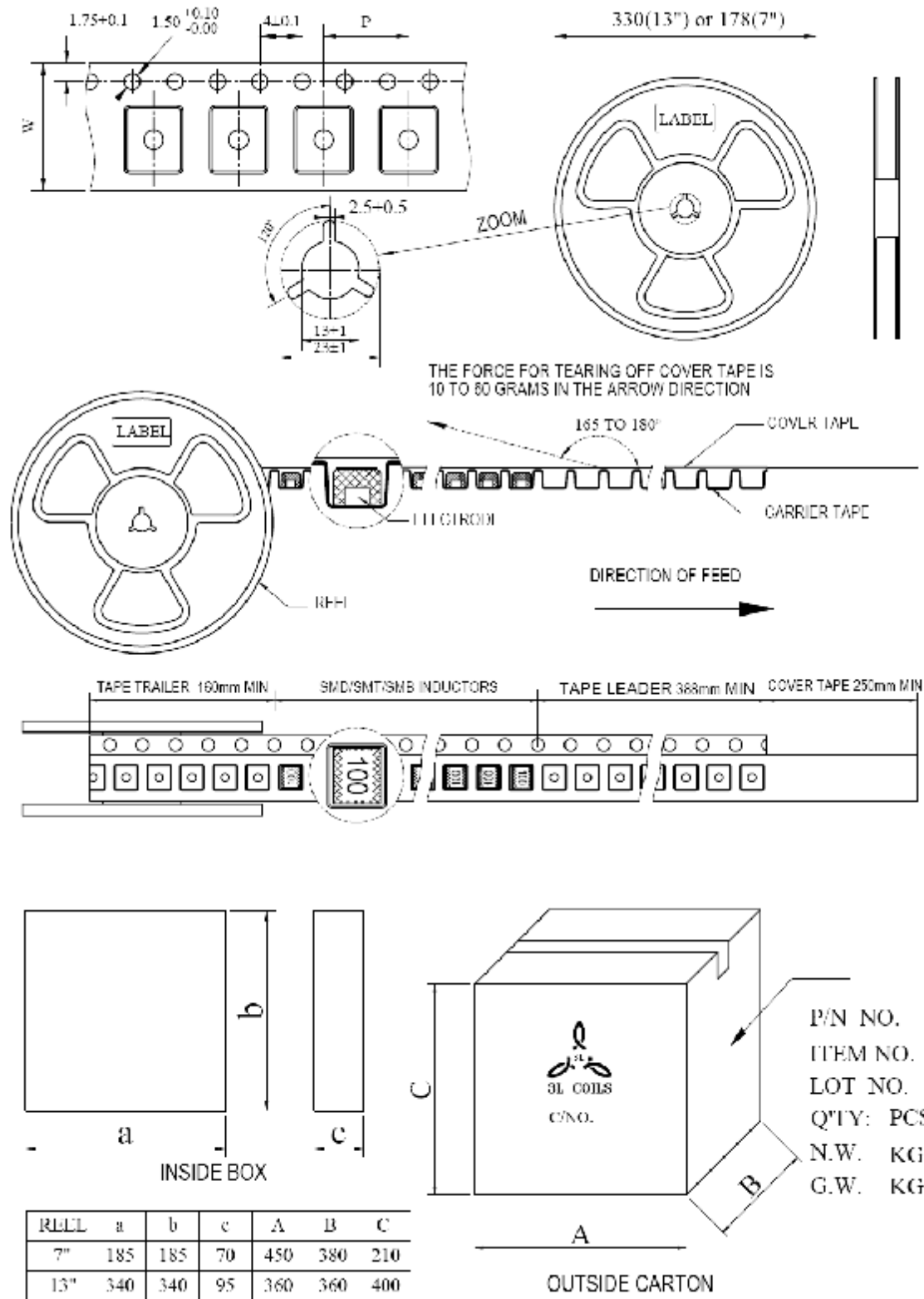
Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.3
		Typical	Maximum			
UPIB0522-1R0M	1.0	19.0	20.0	12.0	7.0	2.54
UPIB0522-1R5M	1.5	30.5	35.0	10.0	5.5	2.54
UPIB0522-2R2M	2.2	43.5	50.0	9.0	4.2	2.54
UPIB0522-3R3M	3.3	77.0	85.5	8.5	3.3	2.54
UPIB0522-4R7M	4.7	74.5	116.6	5.0	2.8	2.54

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape AND Reel Specification



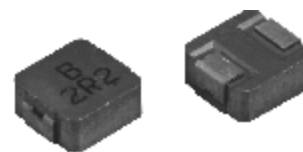
Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0522	16	12		2000	1.15kg	2	4K	16K	9.5kg

UPI BS0603 SERIES

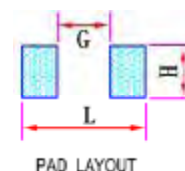
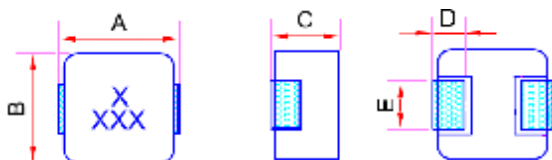
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIBS0603	7.25	6.72	3.0	1.6±0.3	By each	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI B S 0603 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

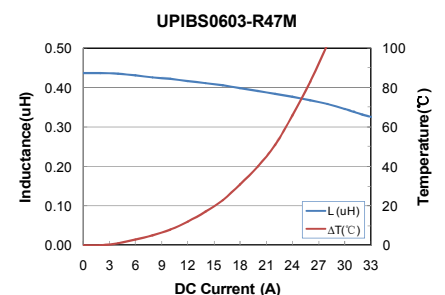
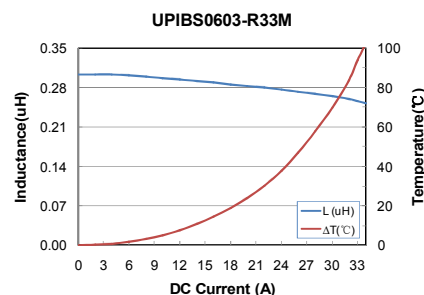
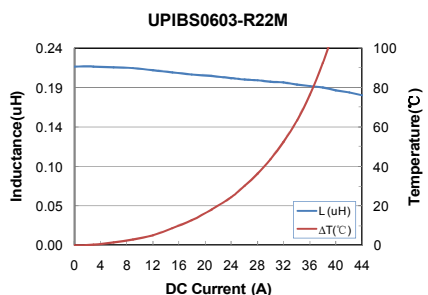
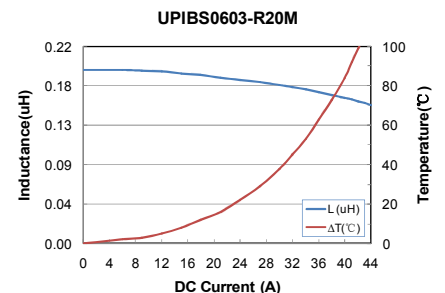
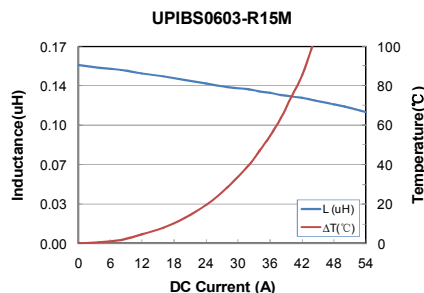
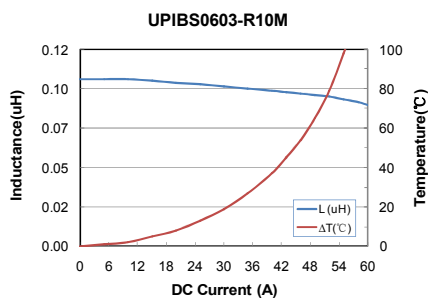
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

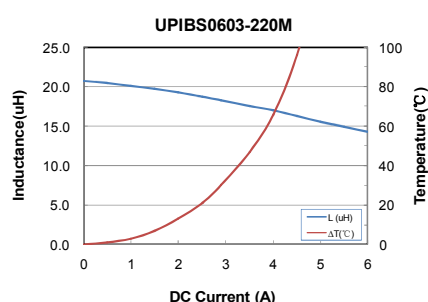
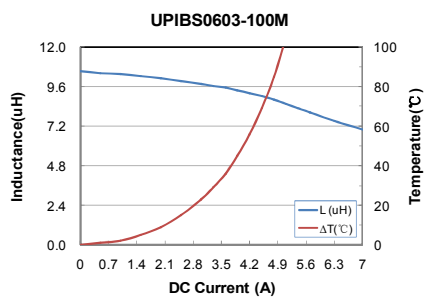
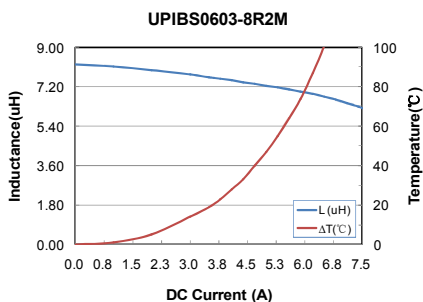
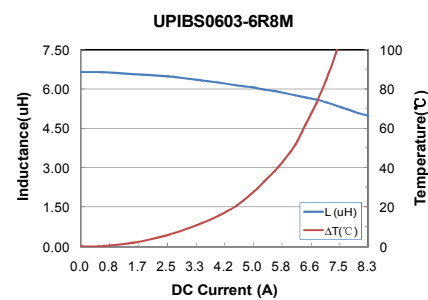
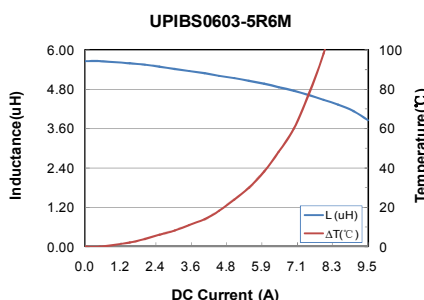
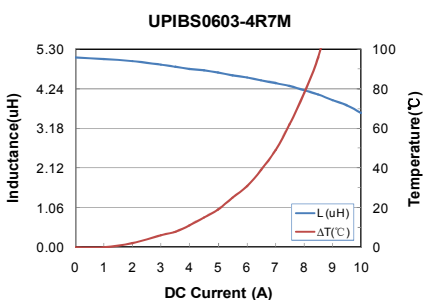
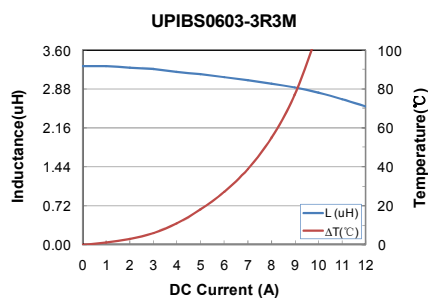
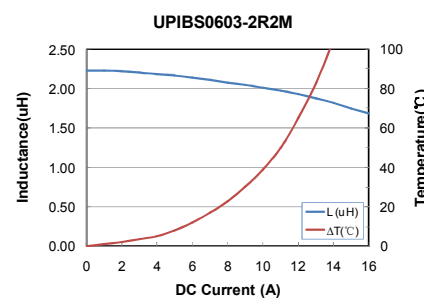
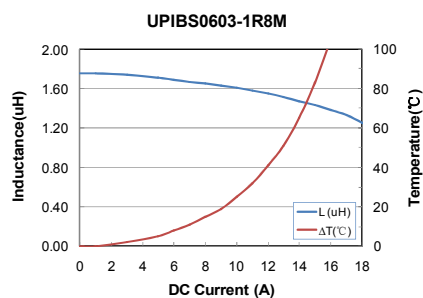
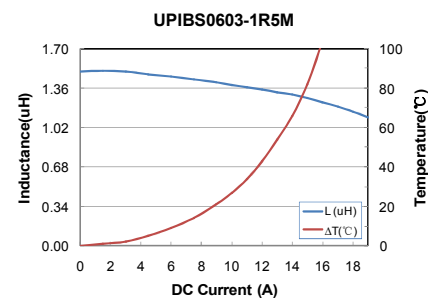
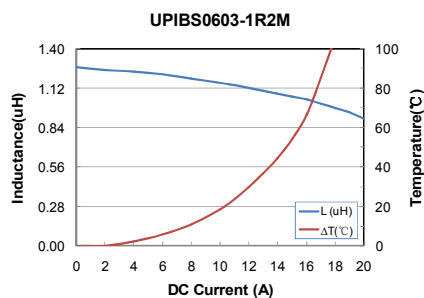
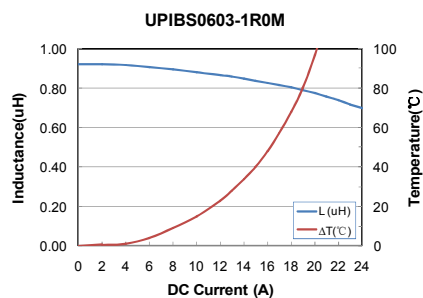
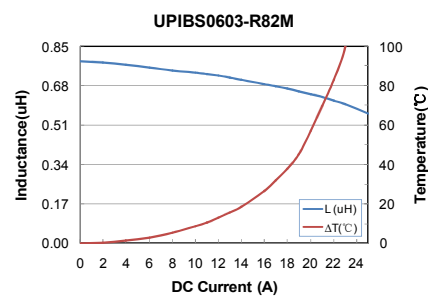
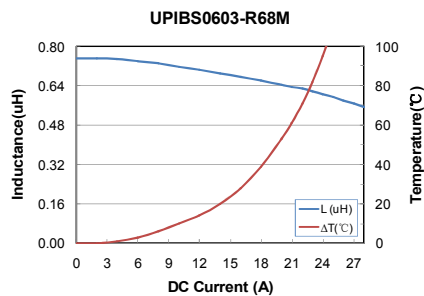
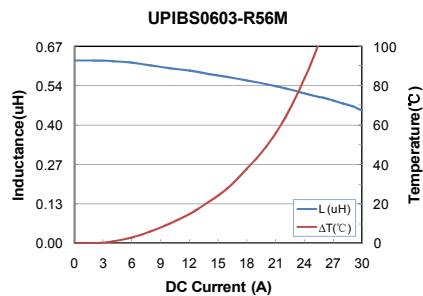
● UPIBS0603 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIBS0603-R10M	0.10	1.15	1.7	60.0	32.5	2.0
UPIBS0603-R15M	0.15	1.35	2.5	52.0	26.0	2.0
UPIBS0603-R20M	0.20	2.45	3.0	41.0	24.0	3.0
UPIBS0603-R22M	0.22	2.45	2.8	40.0	23.0	3.0
UPIBS0603-R33M	0.33	3.1	3.9	30.0	20.0	3.0
UPIBS0603-R47M	0.47	4.0	4.2	26.0	17.5	3.0
UPIBS0603-R56M	0.56	4.8	5.0	25.5	16.5	3.0
UPIBS0603-R68M	0.68	4.95	5.5	25.0	15.5	3.0
UPIBS0603-R82M	0.82	7.15	8.0	24.0	13.0	3.0
UPIBS0603-1R0M	1.0	9.3	10.0	22.0	11.0	3.0
UPIBS0603-1R2M	1.2	11.6	13.0	20.0	10.0	3.0
UPIBS0603-1R5M	1.5	13.5	15.0	18.0	9.0	3.0
UPIBS0603-1R8M	1.8	14.9	18.0	16.0	8.5	3.0
UPIBS0603-2R2M	2.2	18.3	20.0	14.0	8.0	3.0
UPIBS0603-3R3M	3.3	28.0	30.0	13.5	6.0	3.0
UPIBS0603-4R7M	4.7	38.0	40.0	10.0	5.5	3.0
UPIBS0603-5R6M	5.6	46.9	50.0	9.0	5.0	3.0
UPIBS0603-6R8M	6.8	54.8	60.0	8.0	4.5	3.0
UPIBS0603-8R2M	8.2	61.5	68.0	7.5	4.0	3.0
UPIBS0603-100M	10.0	102.5	105.0	7.0	3.0	3.0
UPIBS0603-220M	22.0	155.0	136.0	4.0	2.5	3.0

Typical performance curves :

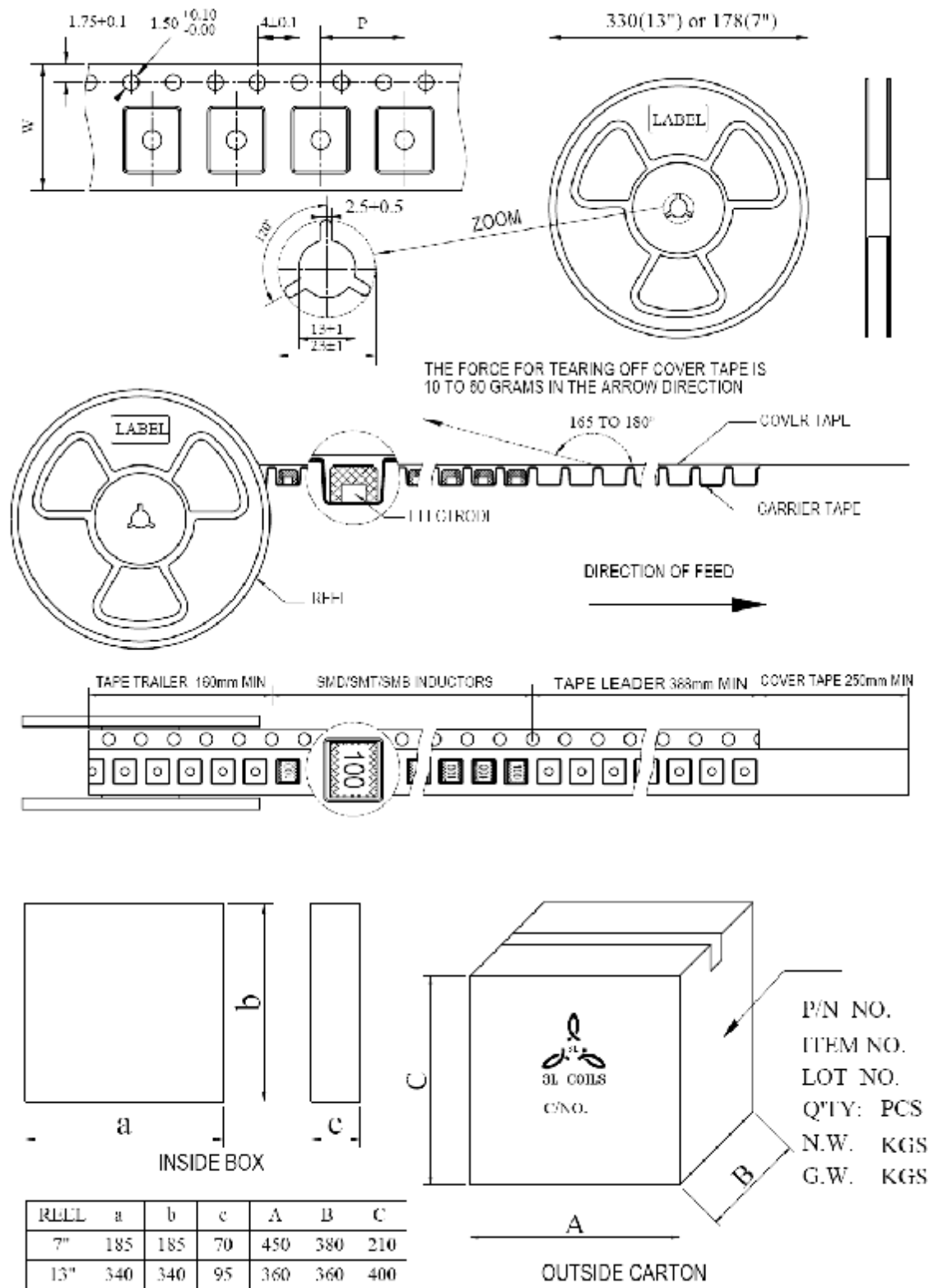


Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape AND Reel Specification



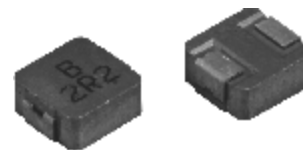
Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0603	16	12		1500	1.35kg	2	3k	12k	17.0kg

UPI BS0618 SERIES

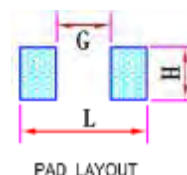
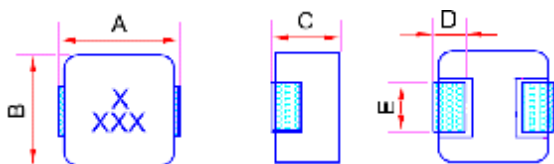
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIBS0618	7.25	6.72	1.8	1.6±0.3	3.0±0.5	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI B S 0618 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0618** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

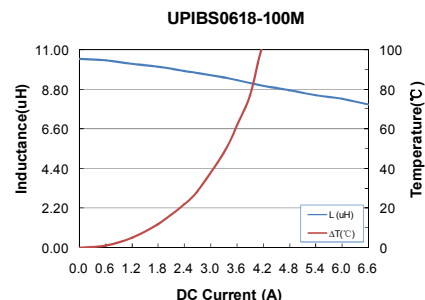
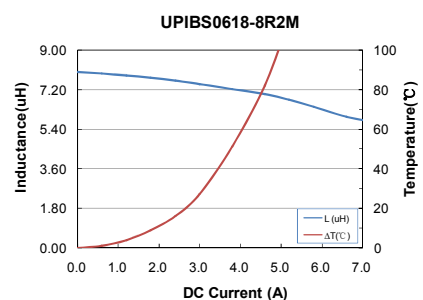
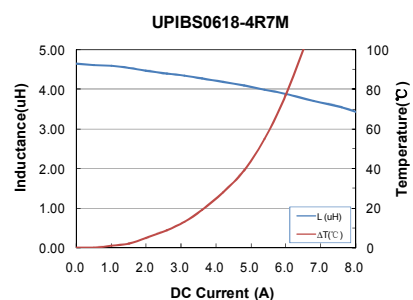
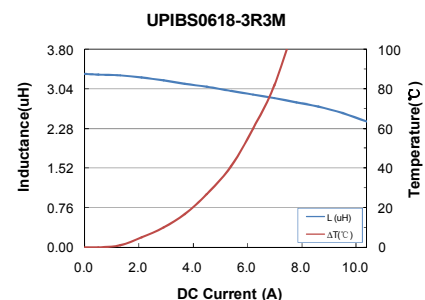
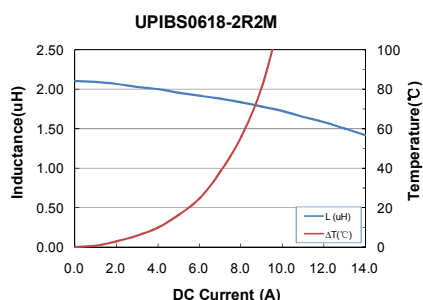
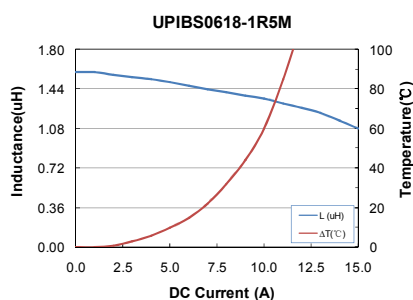
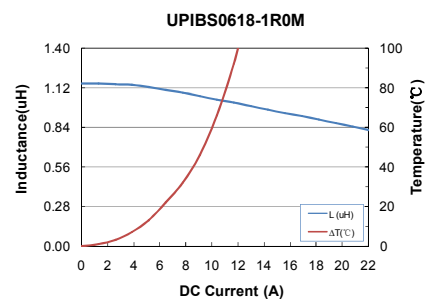
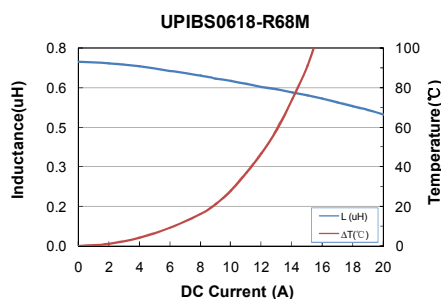
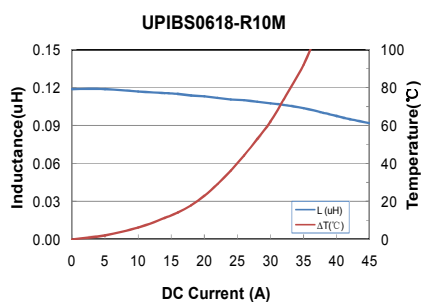
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIBS0618 series

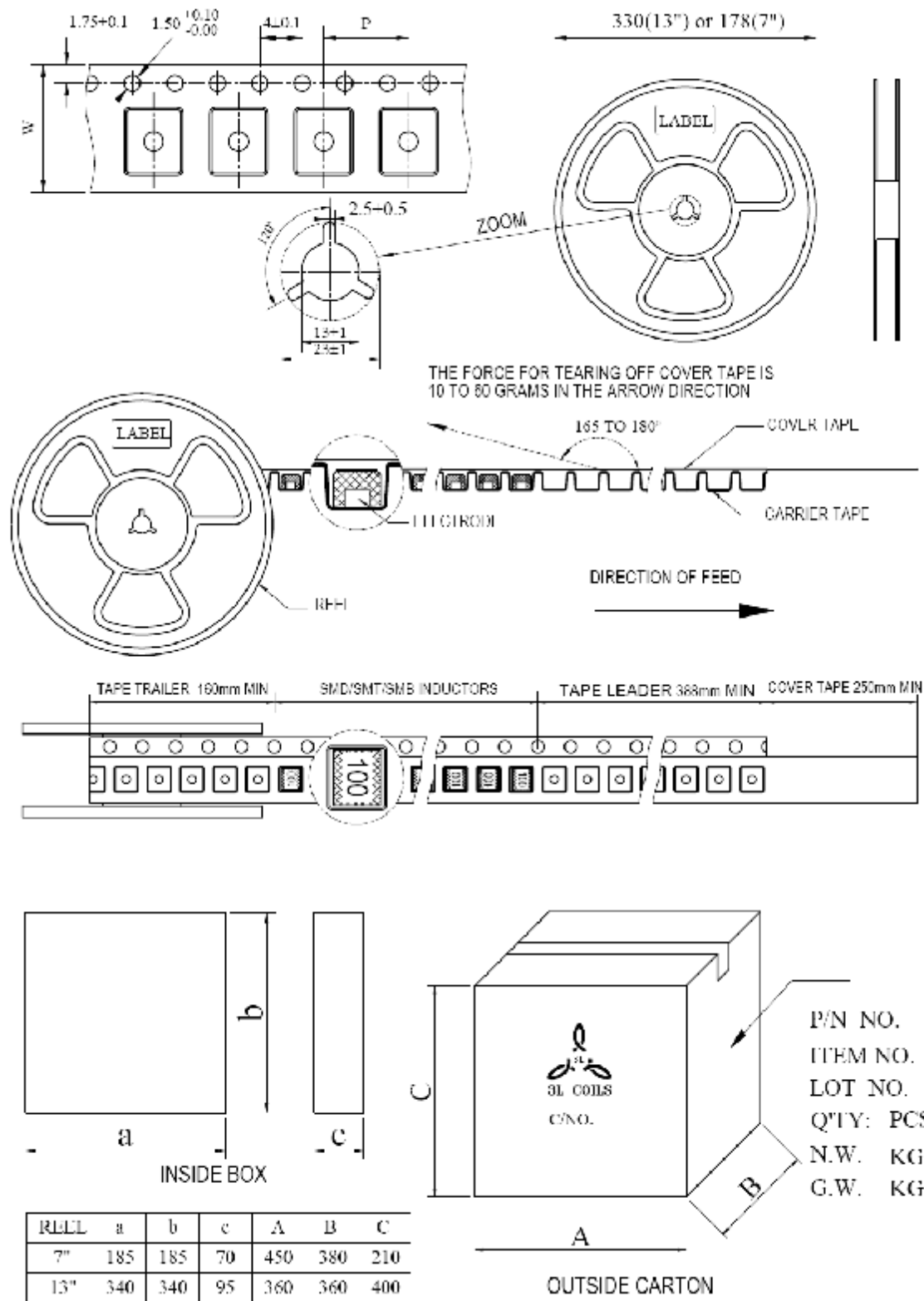
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIBS0618-R10M	0.10	2.0	2.5	45.0	18.0	3.0
UPIBS0618-R68M	0.68	11.2	13.9	17.0	9.0	3.0
UPIBS0618-1R0M	1.0	16.0	18.3	14.0	7.0	3.0
UPIBS0618-1R5M	1.5	20.0	24.0	14.0	6.5	3.0
UPIBS0618-2R2M	2.2	31.5	35.0	13.0	6.0	3.0
UPIBS0618-3R3M	3.3	40.0	60.0	10.0	3.5	3.0
UPIBS0618-4R7M	4.7	60.0	70.0	5.0	3.5	3.0
UPIBS0618-8R2M	8.2	104.0	120.0	3.5	2.2	3.0
UPIBS0618-100M	10.0	130.0	145.0	3.0	1.8	3.0

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0618	16	12		2000	1.35kg	2	4k	16k	12.8kg

UPI F0402 SERIES

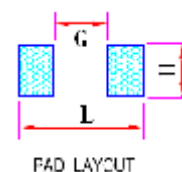
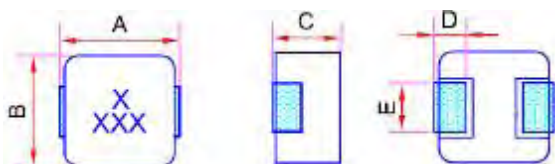
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0402	4.75	4.32	2.0	0.76±0.3	2.03±0.3	2.16	2.3	4.95

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0402 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type .**
- (3) Dimensions : **0402** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

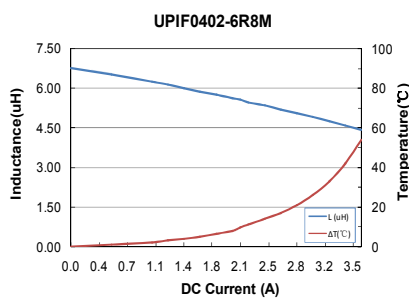
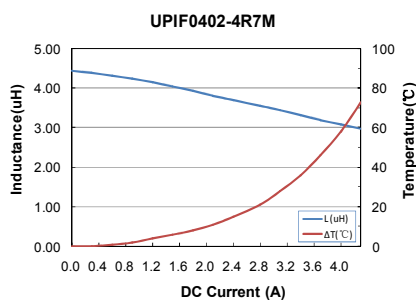
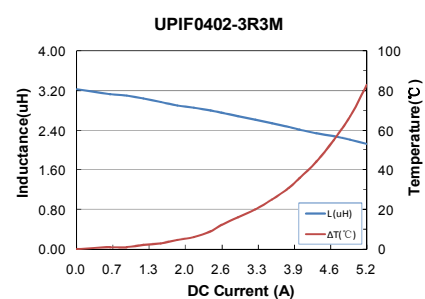
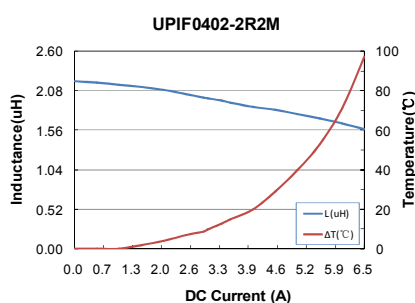
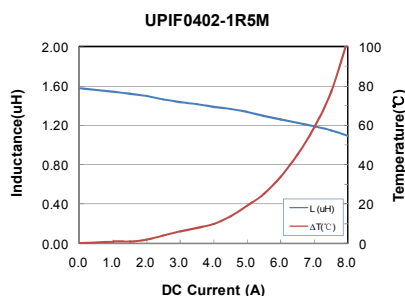
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIF 0402 series

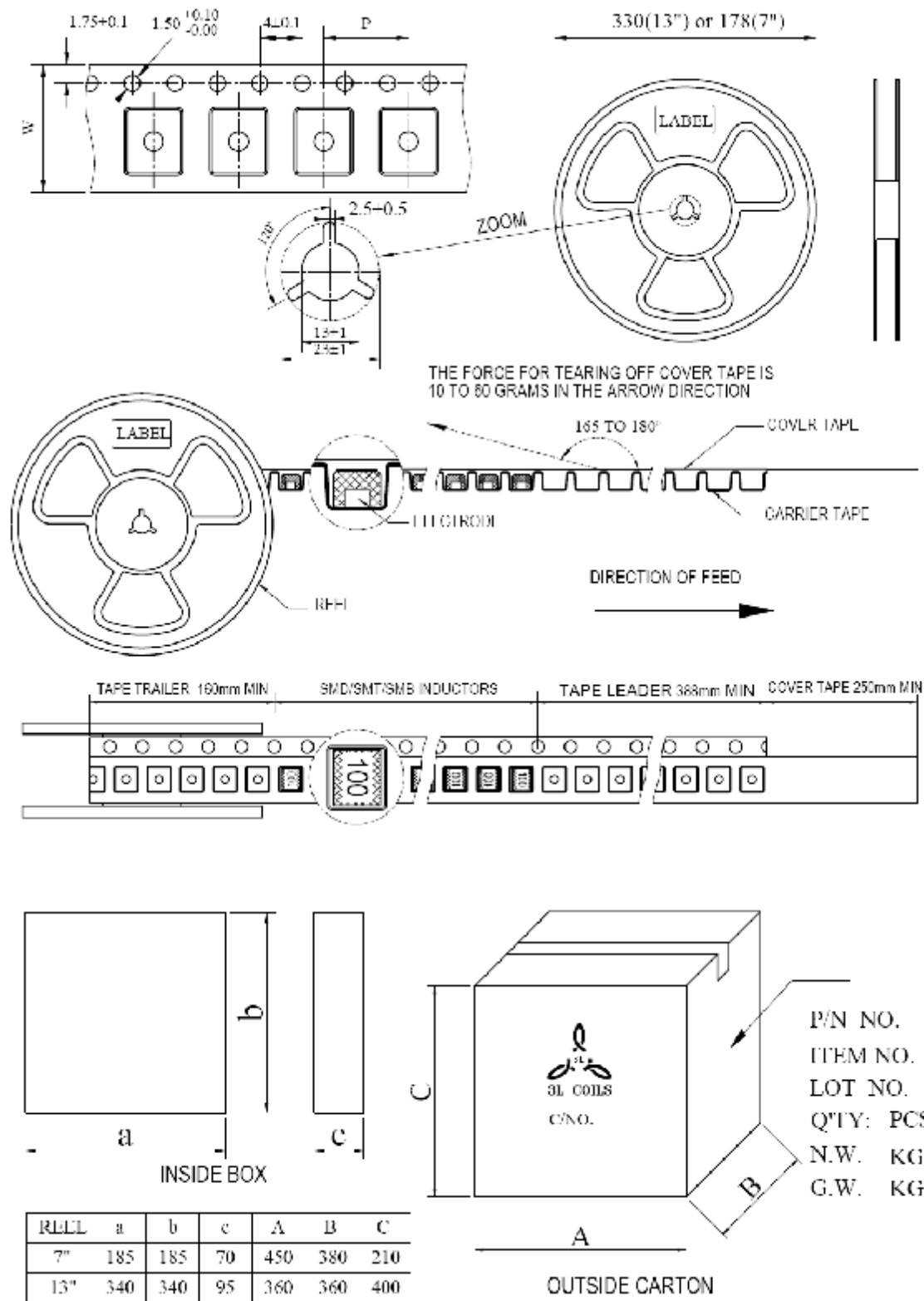
Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.3
		Typical	Maximum			
UPIF0402-1R5M	1.5	46.0	50.0	4.00	3.85	2.03
UPIF0402-2R2M	2.2	64.0	68.0	3.25	3.25	2.03
UPIF0402-3R3M	3.3	79.0	86.0	2.50	2.25	2.03
UPIF0402-4R7M	4.7	95.0	105.0	1.75	1.70	2.03
UPIF0402-6R8M	6.8	155.0	162.0	1.60	1.50	2.03

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0402	12	8		3000	1.35kg	2	6K	24K	10.8kg

UPI F0412 SERIES

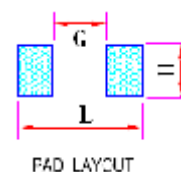
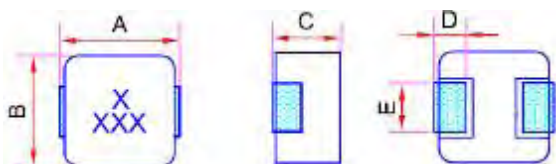
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0412	4.75	4.32	1.2	0.76±0.3	2.03±0.3	2.16	2.3	4.95

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0412 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type .**
- (3) Dimensions : **0412** is size.
- (4) Inductance: **2R2** for **2.2 uH.**
- (5) Inductance tolerance: **M: ± 20%.**

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

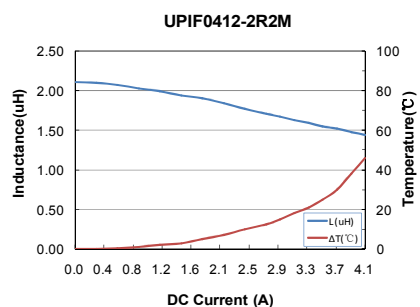
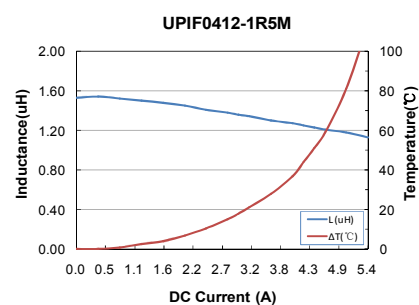
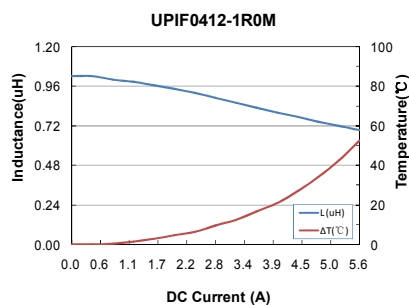
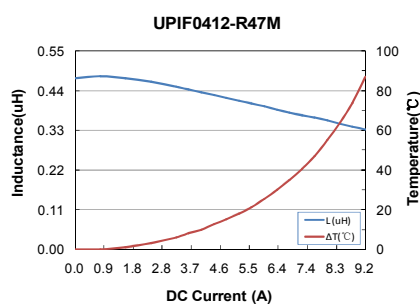
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIF 0412 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ	I rms (A) Typ	E mm ± 0.3
		Typical	Maximum			
UPIF0412-R47M	0.47	19.6	21.0	6.8	6.0	2.03
UPIF0412-1R0M	1.0	38.5	47.0	5.2	4.2	2.03
UPIF0412-1R5M	1.5	65.5	75.0	4.0	3.25	2.03
UPIF0412-2R2M	2.2	78.5	83.5	3.5	2.75	2.03

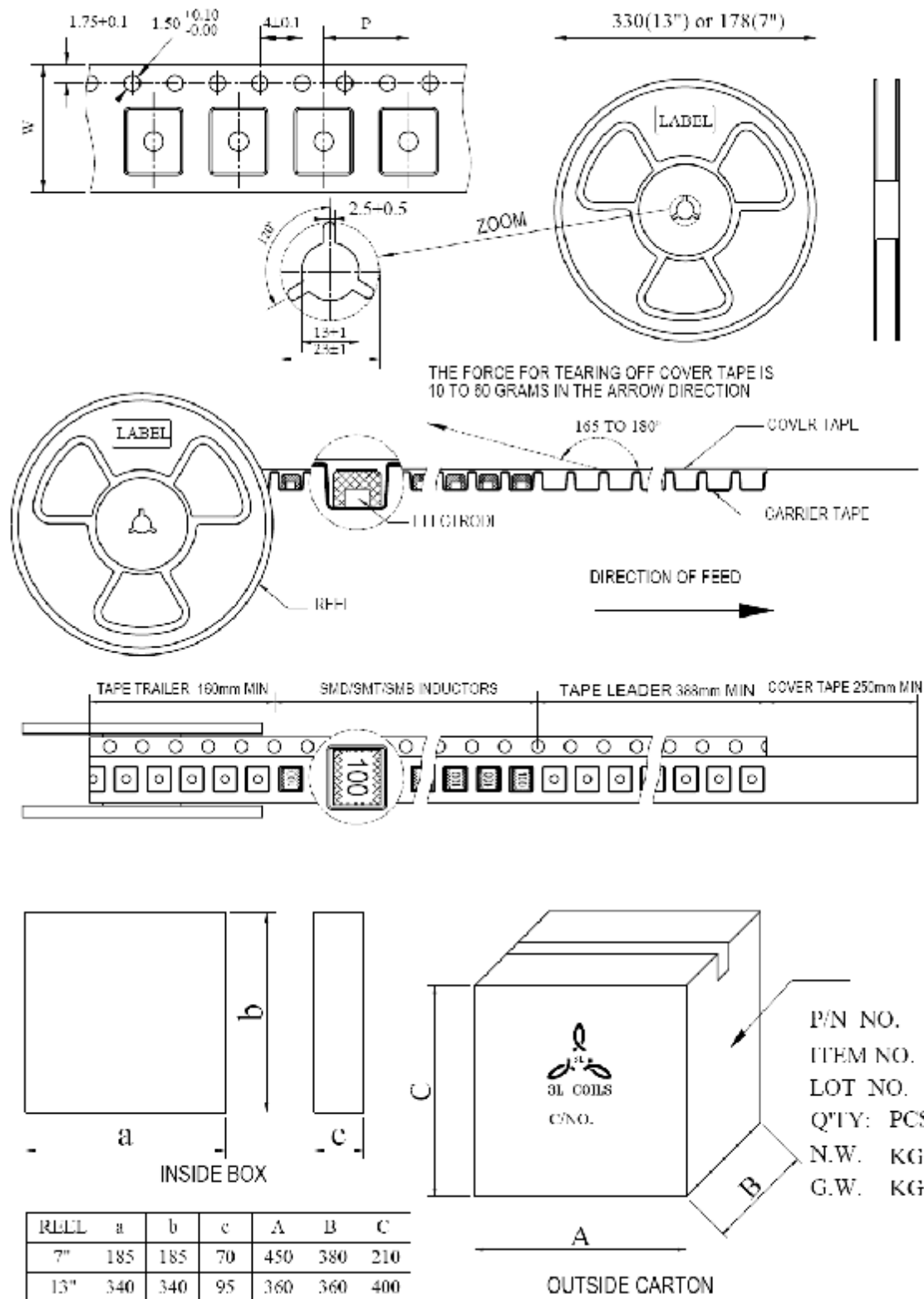
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0412	12	8		4000	1.35kg	2	8K	32K	10.8kg

UPI F0502 SERIES

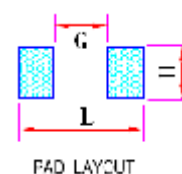
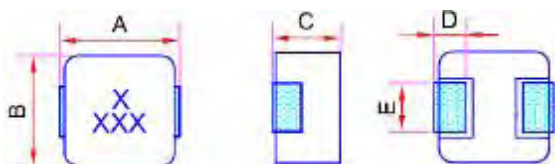
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0502	5.75	5.44	2.0	1.02±0.3	2.54±0.3	2.16	2.79	5.99

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0502 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors**.
- (2) Style : **F-Powder Type**.
- (3) Dimensions : **0502** is size.
- (4) Inductance: **2R2** for **2.2 uH**.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

Test equipments :

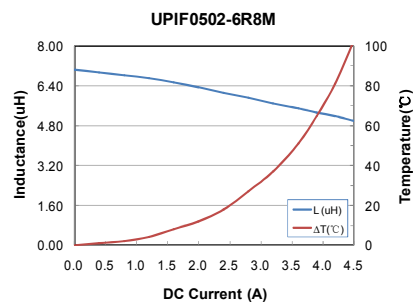
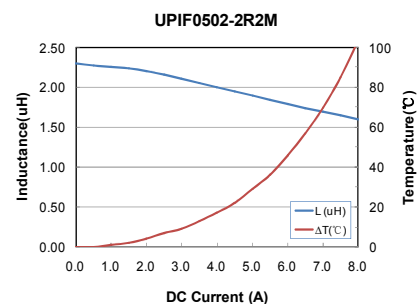
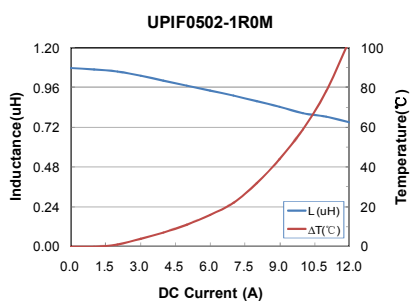
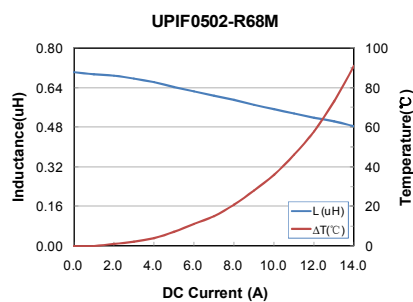
- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C



● UPIF 0502 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.3
		Typical	Maximum			
UPIF0502-R68M	0.68	11.0	13.0	7.5	8.0	2.54
UPIF0502-1R0M	1.0	16.5	18.1	7.0	7.5	2.54
UPIF0502-2R2M	2.2	34.5	37.7	5.5	5.0	2.54
UPIF0502-6R8M	6.8	106.0	121.0	2.1	2.8	2.54

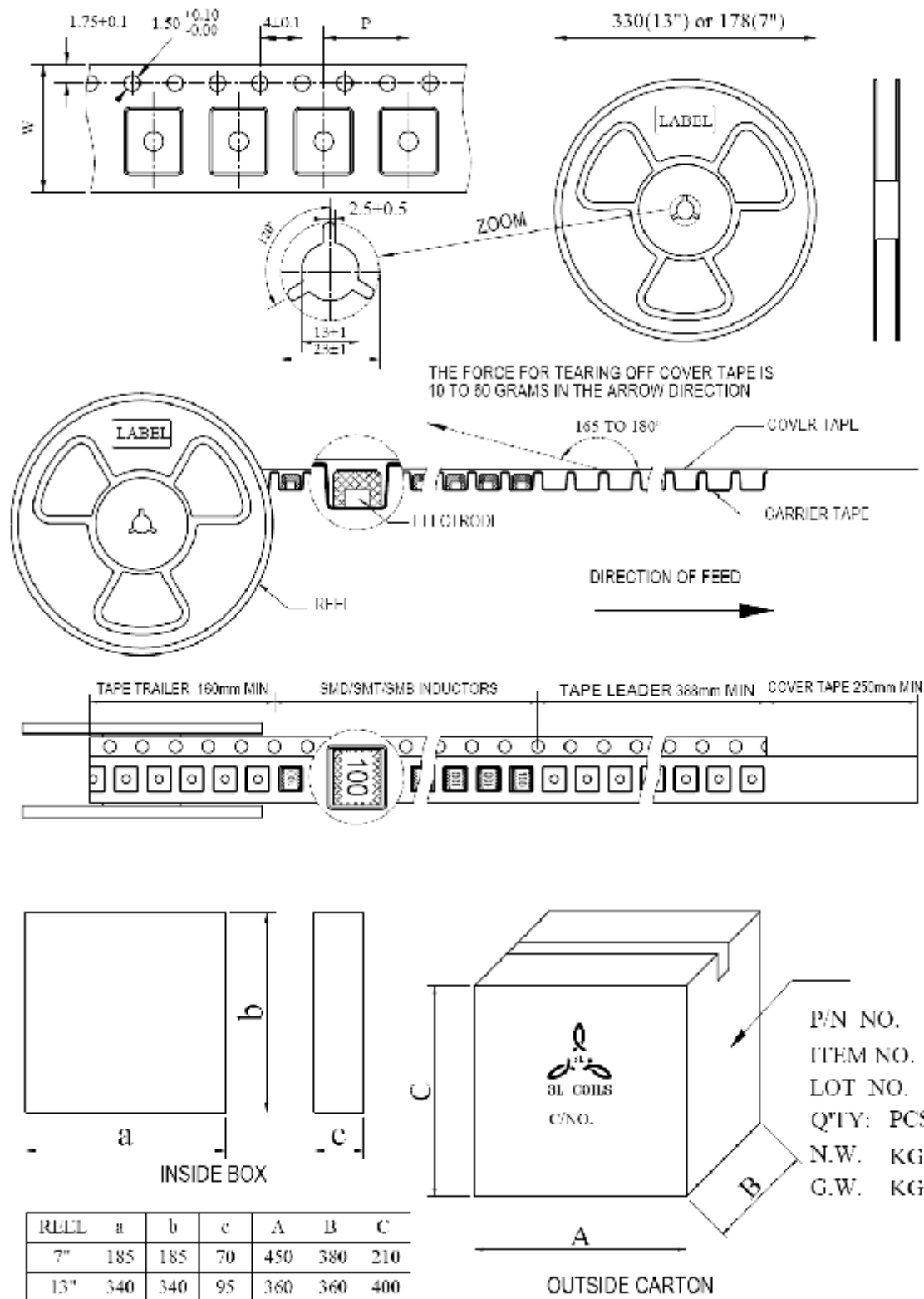
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0502	16	12		2000	1.15kg	2	4K	16K	9.5kg

UPI F0512 SERIES

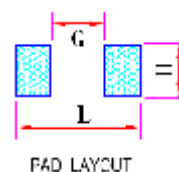
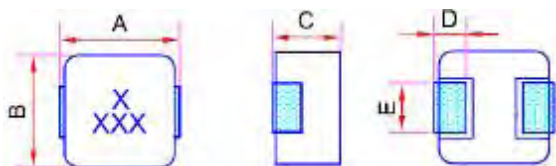
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0512	5.75	5.44	1.2	1.02±0.3	2.54±0.3	2.16	2.79	5.99

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0512 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type .**
- (3) Dimensions : **0512** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

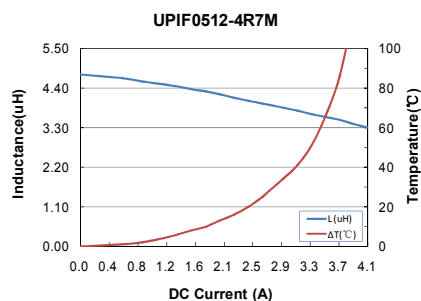
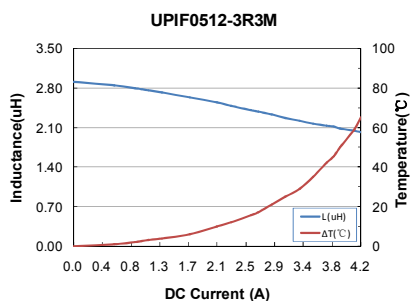
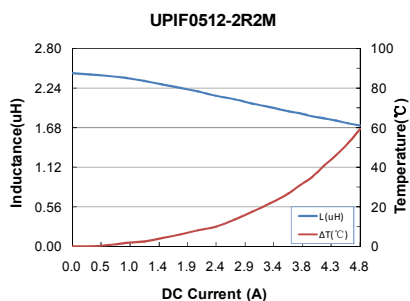
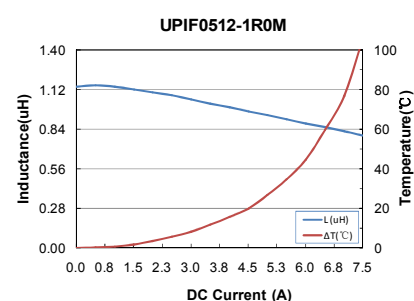
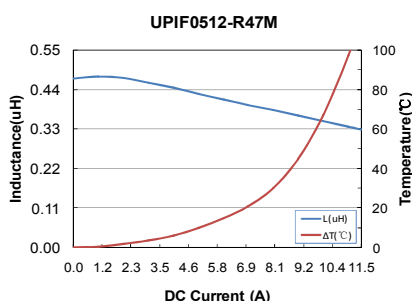
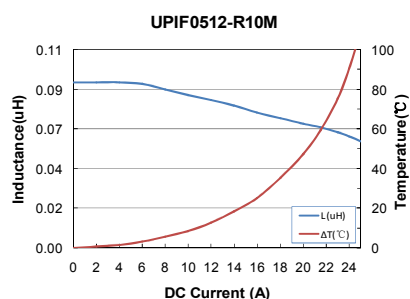
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIF 0512 series

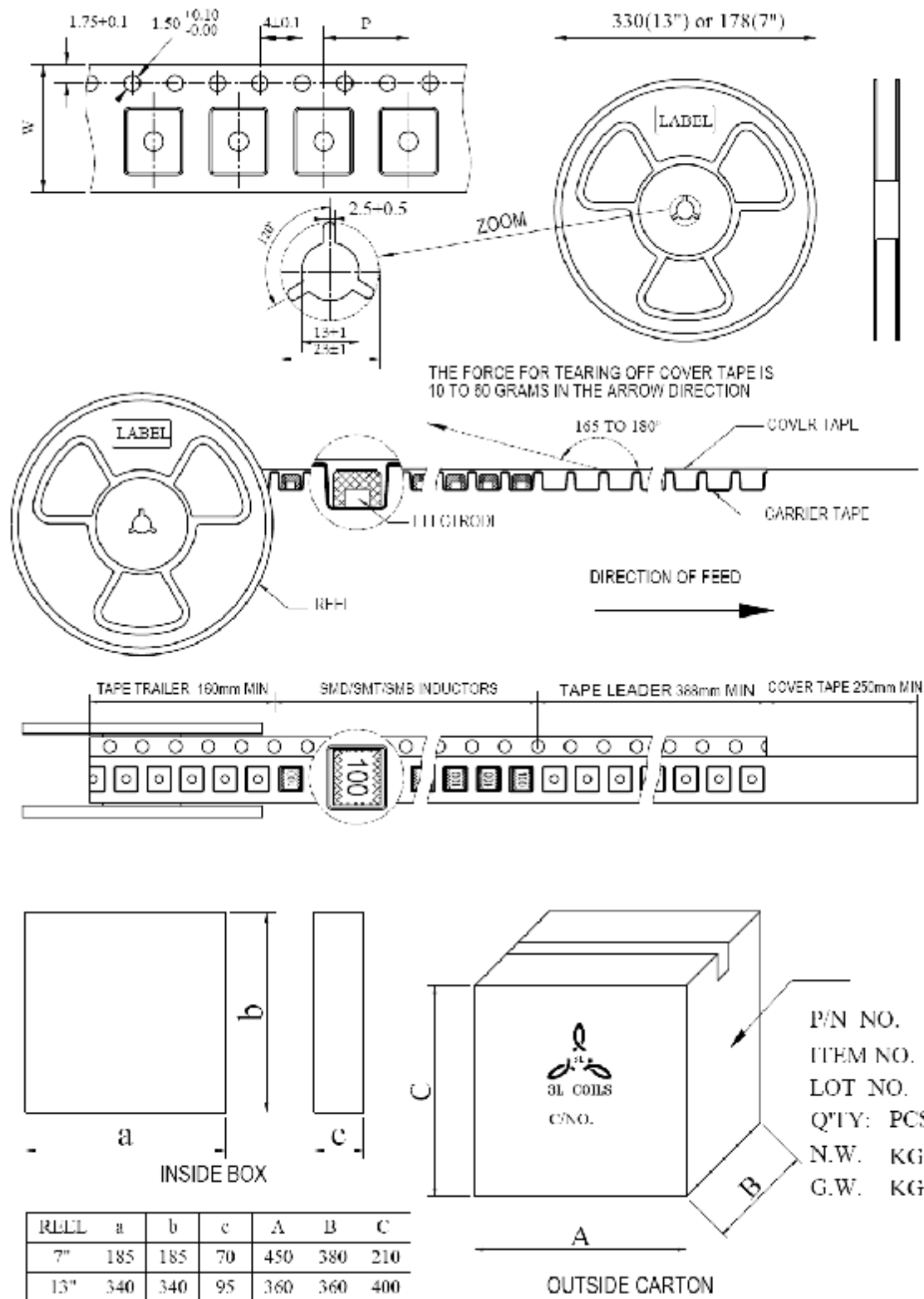
Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.3
		Typical	Maximum			
UPIF0512-R10M	0.10	4.4	5.0	21.5	13.5	2.54
UPIF0512-R47M	0.47	18.6	20.0	10.5	6.5	2.54
UPIF0512-1R0M	1.0	40.5	46.5	6.5	4.4	2.54
UPIF0512-2R2M	2.2	69.5	77.3	4.0	3.4	2.54
UPIF0512-3R3M	3.3	98.4	103.0	3.2	2.8	2.54
UPIF0512-4R7M	4.7	150.0	168.0	2.7	2.2	2.54

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

- **Tape AND Reel Specification**



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0512	16	12		3000	1.2kg	2	6K	24K	9.6kg

UPI F0515 SERIES

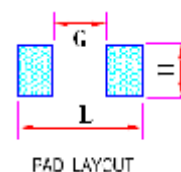
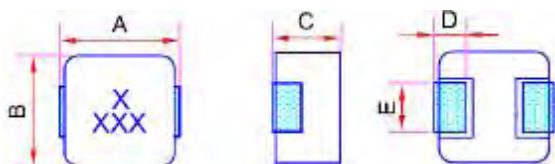
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0515	5.75	5.44	1.5	1.02±0.3	2.54±0.3	2.16	2.79	5.99

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0515 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type .**
- (3) Dimensions : **0515** is size.
- (4) Inductance: **2R2** for **2.2 uH.**
- (5) Inductance tolerance: **M: ± 20%.**

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

Test equipments :

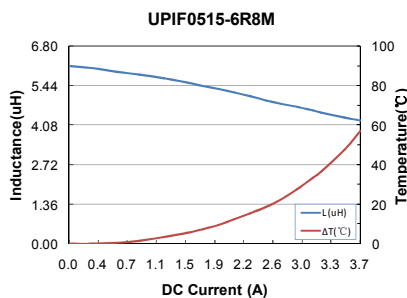
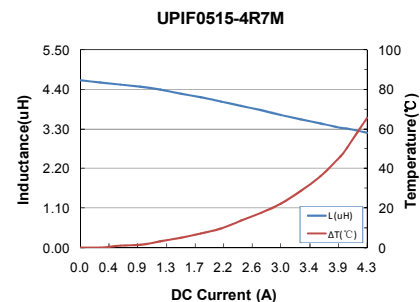
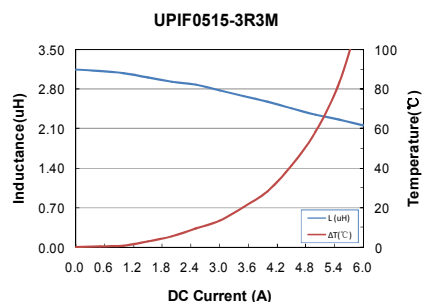
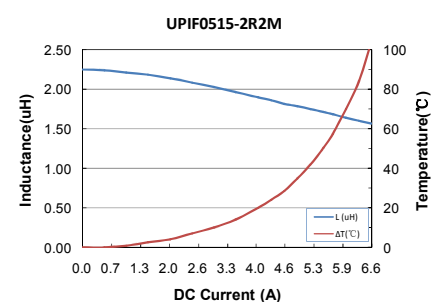
- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C



● UPIF 0515 series

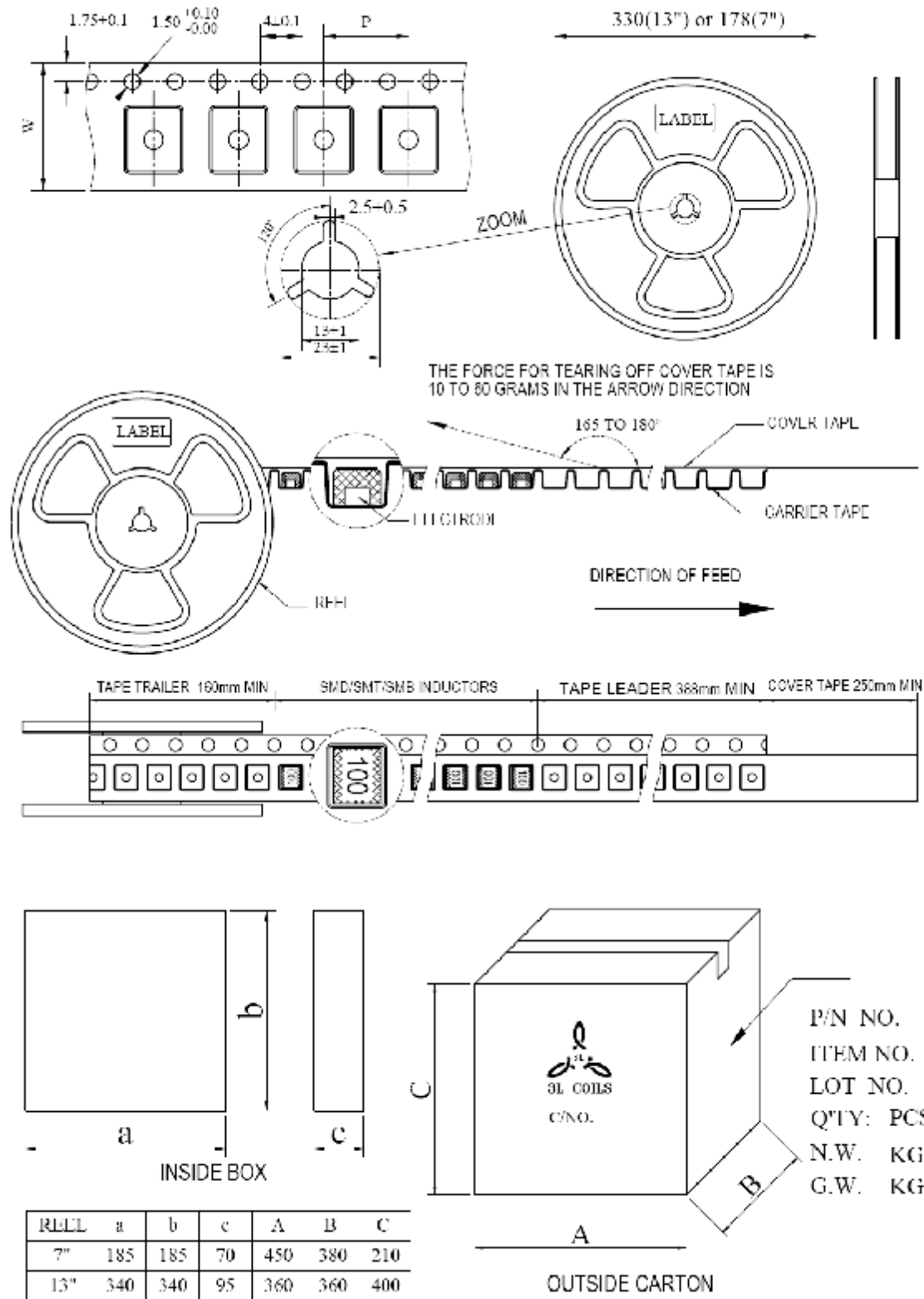
Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.3
		Typical	Maximum			
UPIF0515-2R2M	2.2	61.0	64.0	6.0	3.3	2.54
UPIF0515-3R3M	3.3	67.5	72.0	5.0	3.2	2.54
UPIF0515-4R7M	4.7	90.0	106.0	4.0	3.0	2.54
UPIF0515-6R8M	6.8	120.0	130.0	3.2	2.5	2.54

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7''	13''	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0515	16	12		2000	1.05kg	2	4K	16K	8.5kg

UPI F0804 SERIES

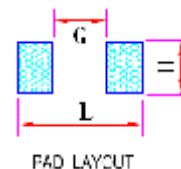
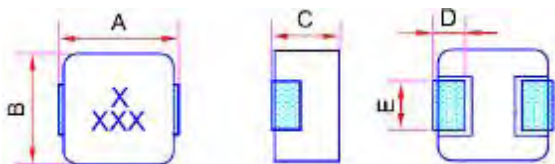
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0804	8.90	8.25	4.0	1.8±0.3	By each P/N	4.6	3.8	10.6

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 0804 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type** .
- (3) Dimensions : **0804** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

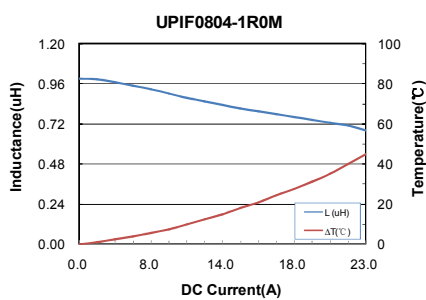
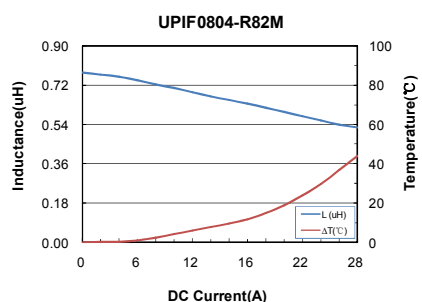
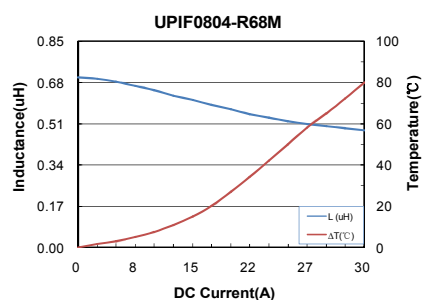
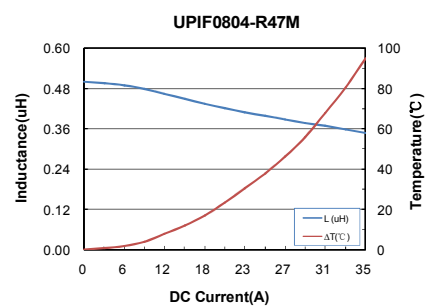
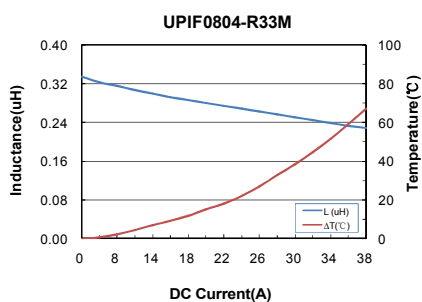
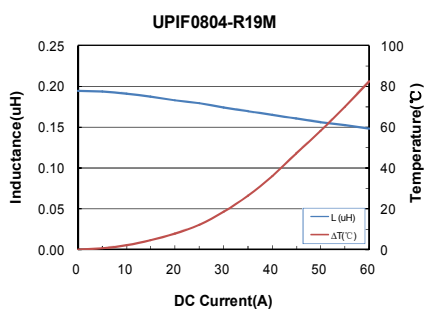
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

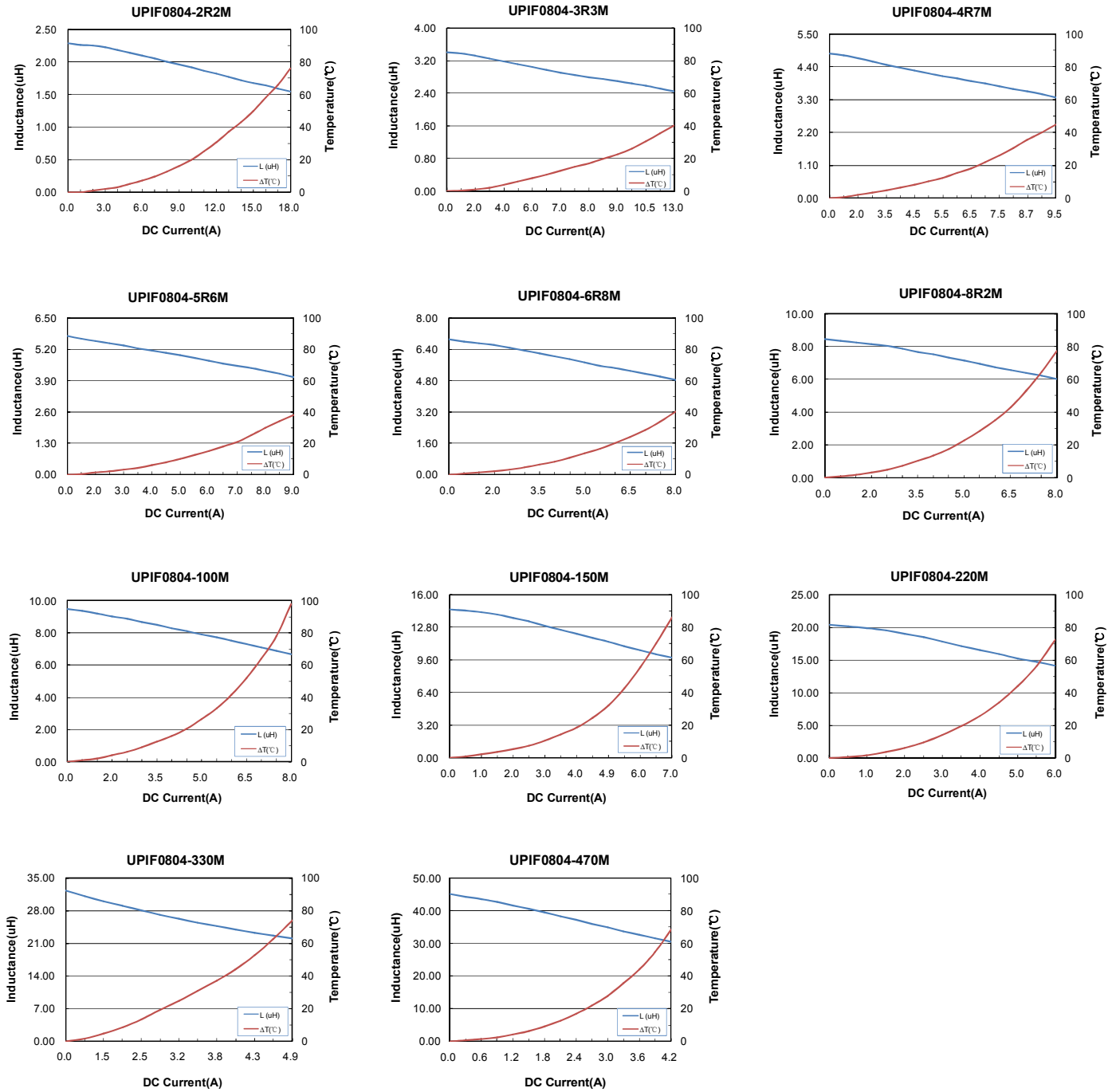
● UPIF0804 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF0804-R19M	0.19	1.18	1.35	22.0	34.0	3.0
UPIF0804-R33M	0.33	1.60	2.15	16.0	27.5	3.0
UPIF0804-R47M	0.47	2.22	2.38	14.0	25.0	3.0
UPIF0804-R68M	0.68	2.90	3.22	14.5	22.2	3.0
UPIF0804-R82M	0.82	2.81	3.88	15.0	19.5	3.0
UPIF0804-1R0M	1.0	4.03	4.63	12.0	18.2	3.2
UPIF0804-2R2M	2.2	8.8	9.41	10.2	12.0	3.2
UPIF0804-3R3M	3.3	12.45	14.9	9.7	10.5	3.2
UPIF0804-4R7M	4.7	19.8	22.6	8.7	8.0	3.2
UPIF0804-5R6M	5.6	24.53	28.6	7.6	7.4	3.2
UPIF0804-6R8M	6.8	28.34	33.4	6.7	7.0	3.2
UPIF0804-8R2M	8.2	39.64	45	6.6	5.7	3.2
UPIF0804-100M	10	44.15	51.8	6.4	5.4	3.2
UPIF0804-150M	15	53.50	65.3	3.7	4.9	3.2
UPIF0804-220M	22	70.47	94.2	3.3	4.3	3.2
UPIF0804-330M	33	114.78	144	3.2	3.2	3.2
UPIF0804-470M	47	149	155	2.0	1.9	3.2

Typical performance curves :



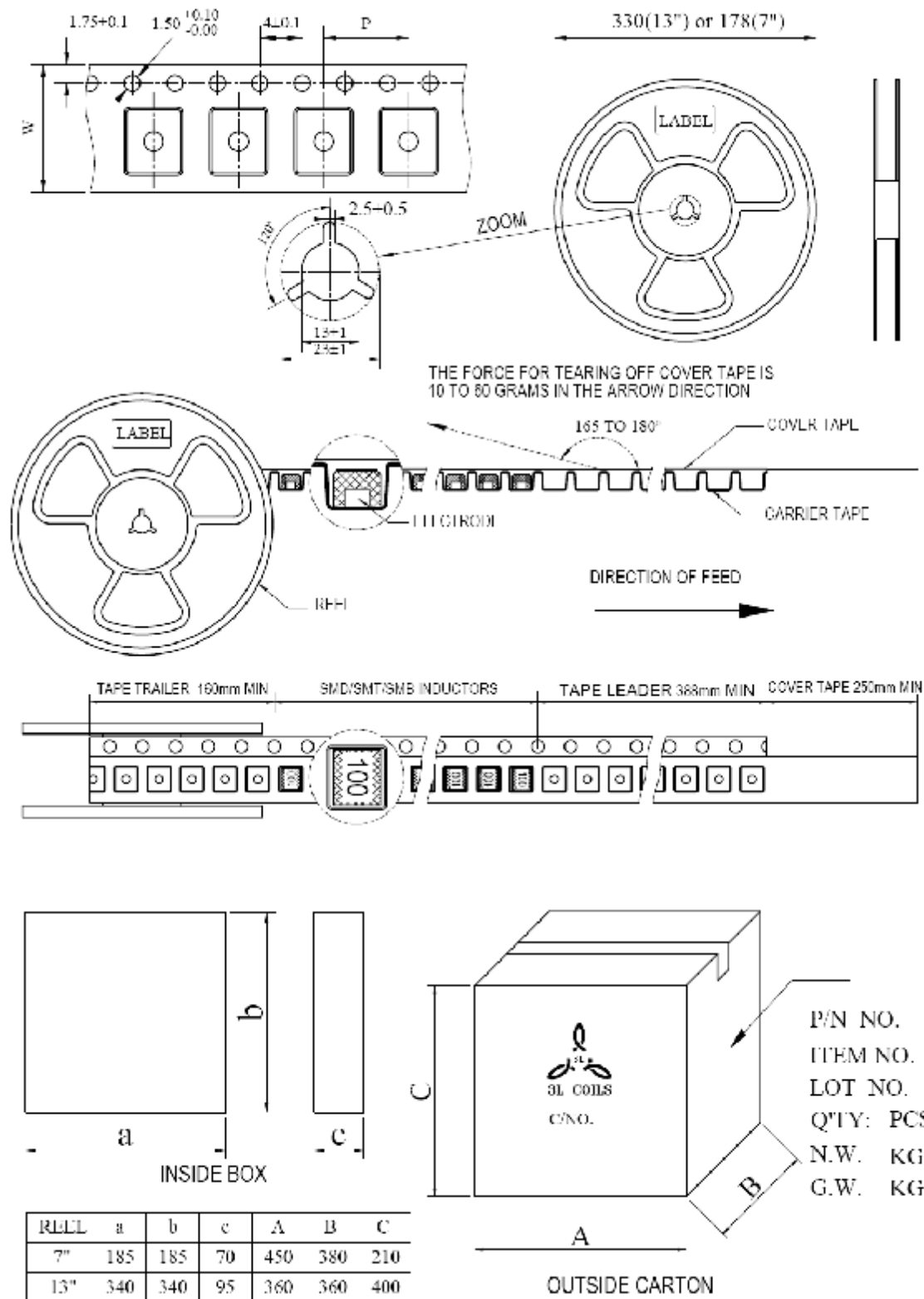
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0804	24	16		1000	1.95kg	2	2K	8K	18.0kg

UPI F1004 SERIES

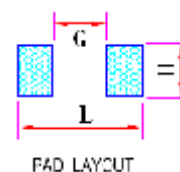
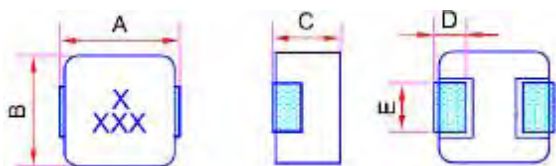
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF1004	11.8	10.5	4.0	2.3±0.3	3.0±0.5	5.4	4.5	12.4

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F 1004 - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type**
- (3) Dimensions : **1004** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

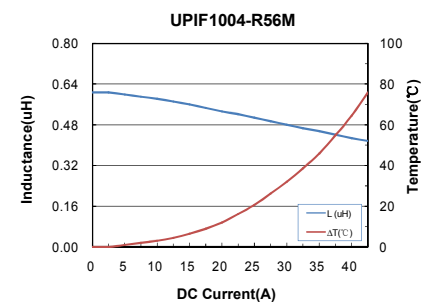
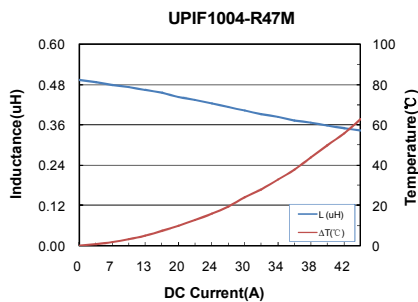
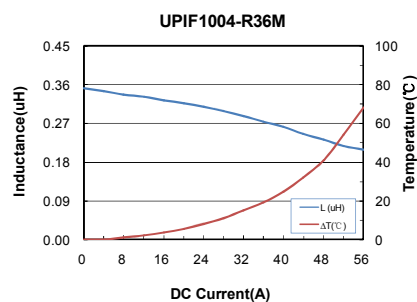
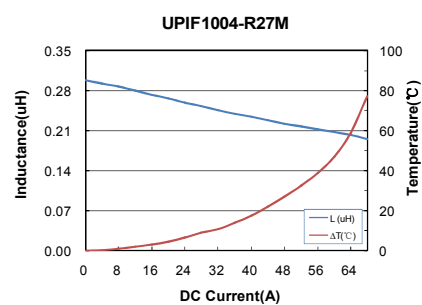
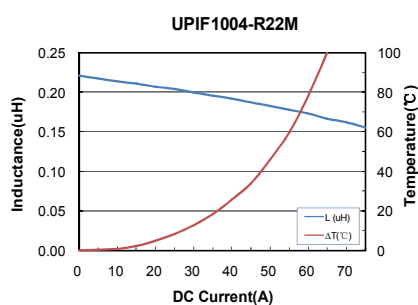
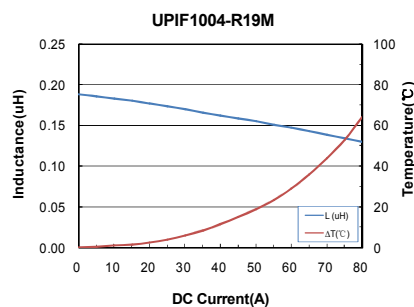
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

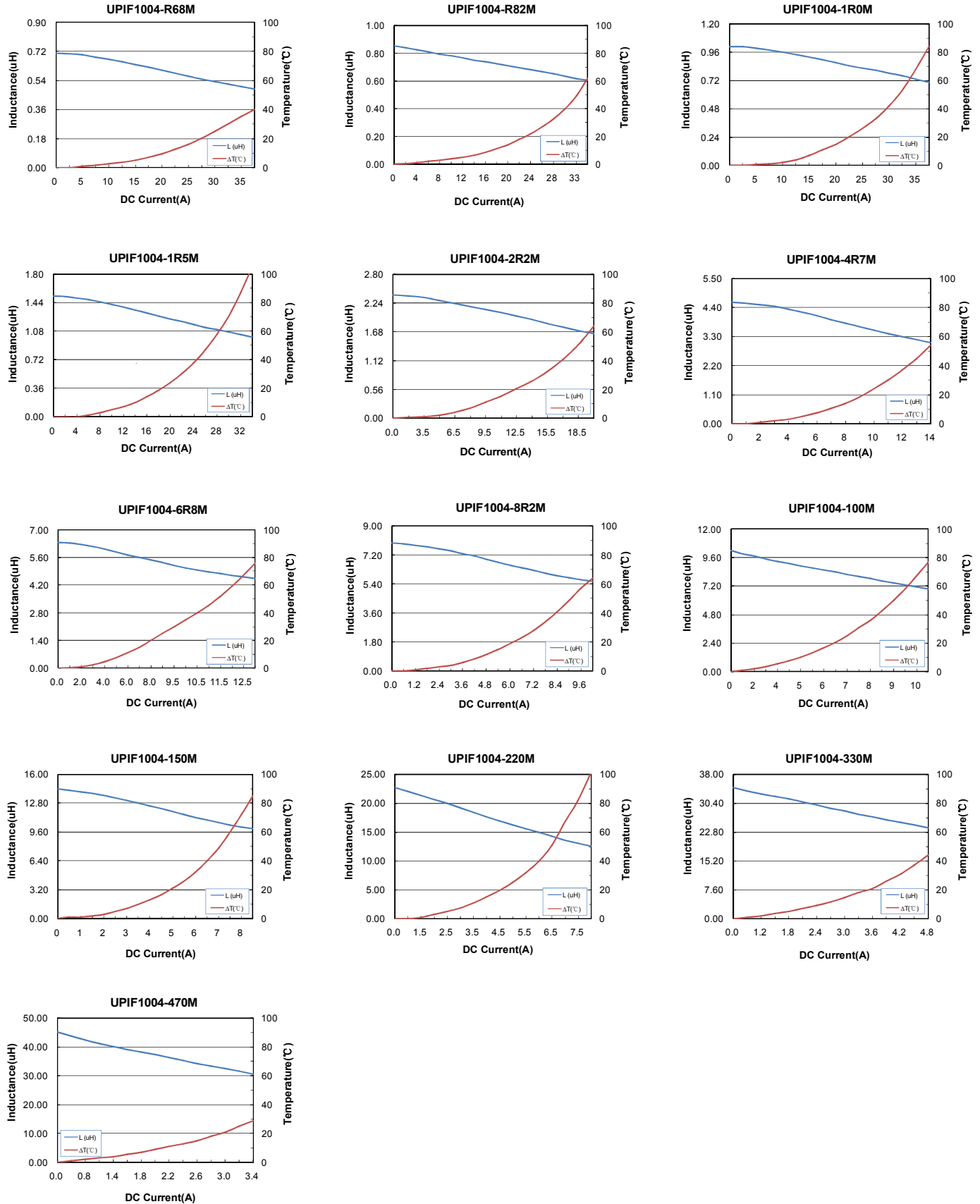
● UPIF1004 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1004-R19M	0.19	0.6	0.8	46.0	40.0	3.0
UPIF1004-R22M	0.22	0.8	0.95	44.0	33.0	3.0
UPIF1004-R27M	0.27	0.8	0.95	44.0	33.0	3.0
UPIF1004-R36M	0.36	1.0	1.15	30.0	32.0	3.0
UPIF1004-R47M	0.47	1.4	1.68	30.0	30.0	3.0
UPIF1004-R56M	0.56	1.7	1.8	22.0	32.0	3.0
UPIF1004-R68M	0.68	1.7	1.85	22.0	27.0	3.0
UPIF1004-R82M	0.82	2.2	2.3	22.0	25.0	3.0
UPIF1004-1R0M	1.0	2.5	3.3	20.0	25.0	3.0
UPIF1004-1R5M	1.5	3.5	4.3	16.0	17.0	3.0
UPIF1004-2R2M	2.2	7.8	8.5	12.0	15.0	3.0
UPIF1004-4R7M	4.7	13.8	14.2	7.6	9.5	3.0
UPIF1004-6R8M	6.8	18.7	19.3	7.5	9.0	3.0
UPIF1004-8R2M	8.2	25.5	28.0	7.3	8.0	3.0
UPIF1004-100M	10.0	28.3	30.5	7.1	7.5	3.0
UPIF1004-150M	15.0	38.3	45.0	6.0	6.25	3.0
UPIF1004-220M	22.0	61.3	66.0	4.5	5.0	3.0
UPIF1004-330M	33.0	89.0	94.5	4.0	4.4	3.0
UPIF1004-470M	47.0	129.1	145.0	3.0	3.3	3.0

Typical performance curves :



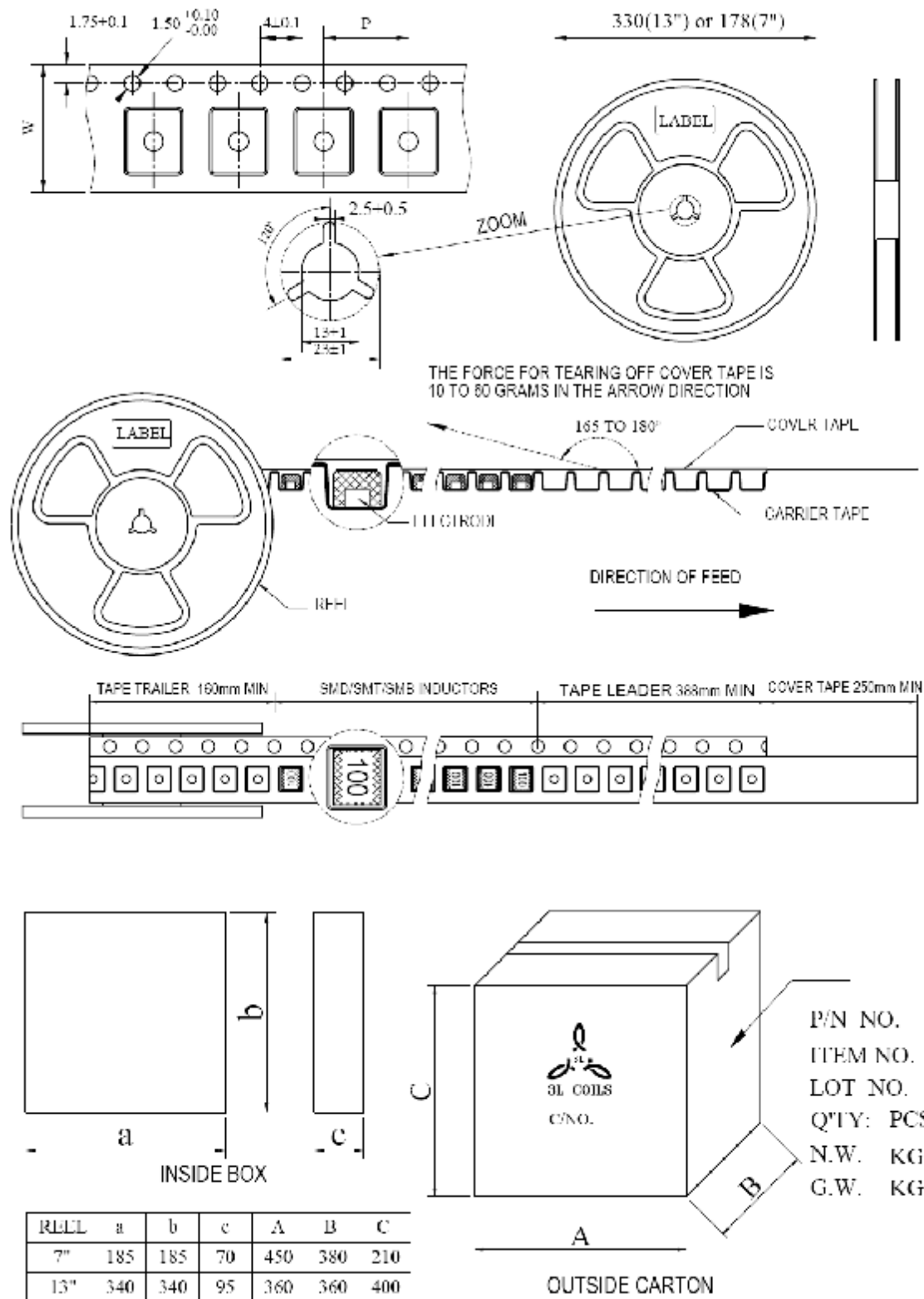
Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7''	13''	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 1004	24	16		900	2.57kg	2	1.8k	7.2k	22.3kg

UPI FS0603 SERIES

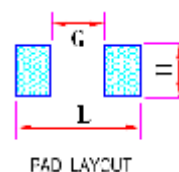
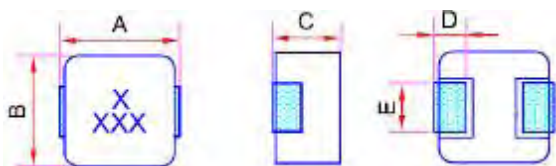
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIFS0603	7.25	6.72	1.5	By each P/N	3.0±0.5	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F S 0603 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors**.
- (2) Style : **F**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

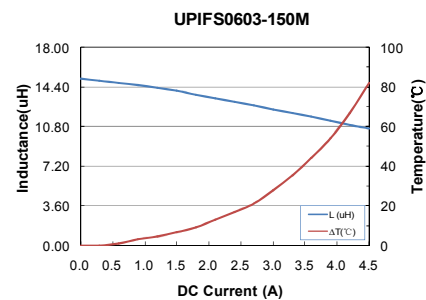
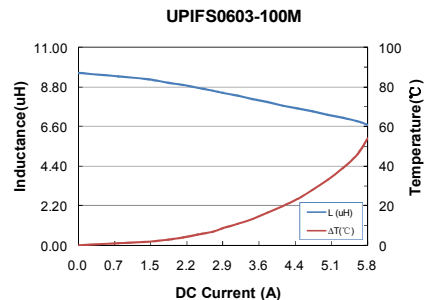
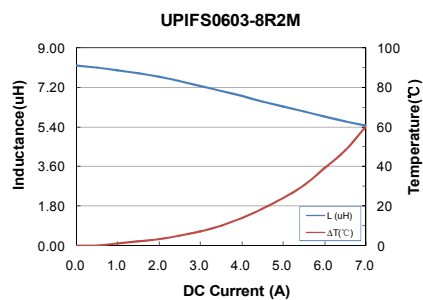
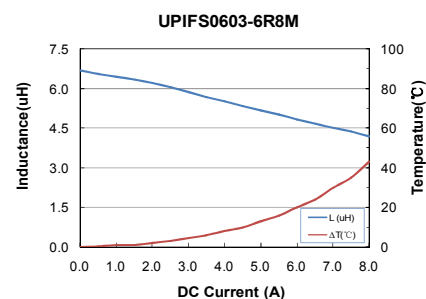
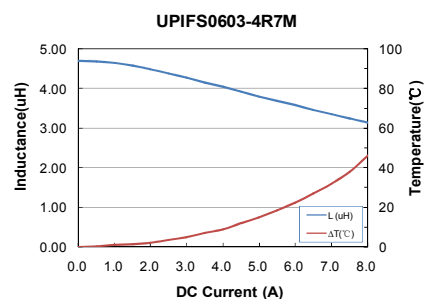
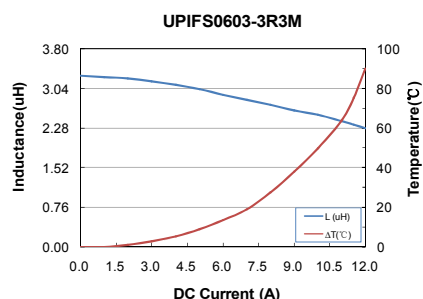
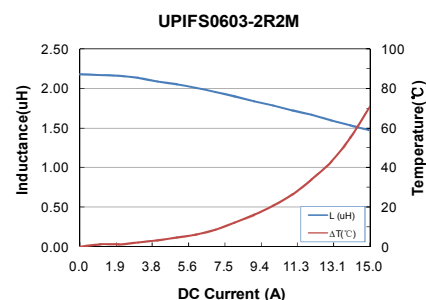
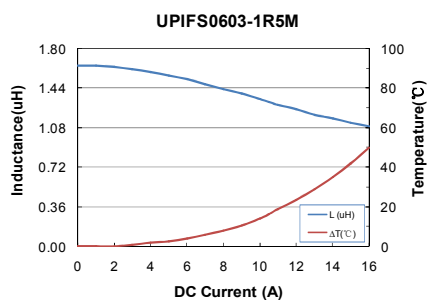
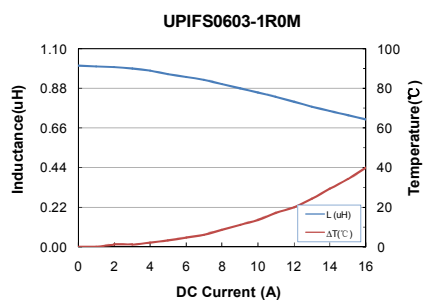
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIFS0603 series

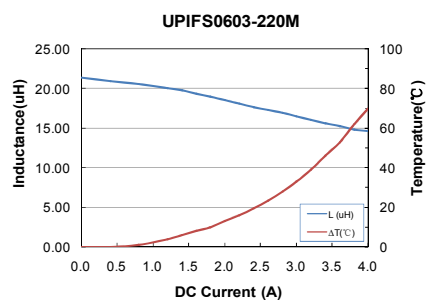
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIFS0603-1R0M	1.0	7.0	8.0	9.5	12.5	3.0
UPIFS0603-1R5M	1.5	10.2	12.0	8.5	10.5	3.0
UPIFS0603-2R2M	2.2	14.7	16.5	7.0	9.0	3.0
UPIFS0603-3R3M	3.3	23.5	26.0	6.5	7.0	3.0
UPIFS0603-4R7M	4.7	29.5	33.4	4.0	6.0	3.0
UPIFS0603-6R8M	6.8	41.0	46.8	4.0	5.5	3.0
UPIFS0603-8R2M	8.2	52.5	54.9	4.0	5.0	3.0
UPIFS0603-100M	10.0	64.5	71.2	3.5	4.0	3.0
UPIFS0603-150M	15.0	108.0	118.0	3.0	3.5	3.0
UPIFS0603-220M	22.0	126.0	135.0	2.5	2.9	3.0

Typical performance curves :



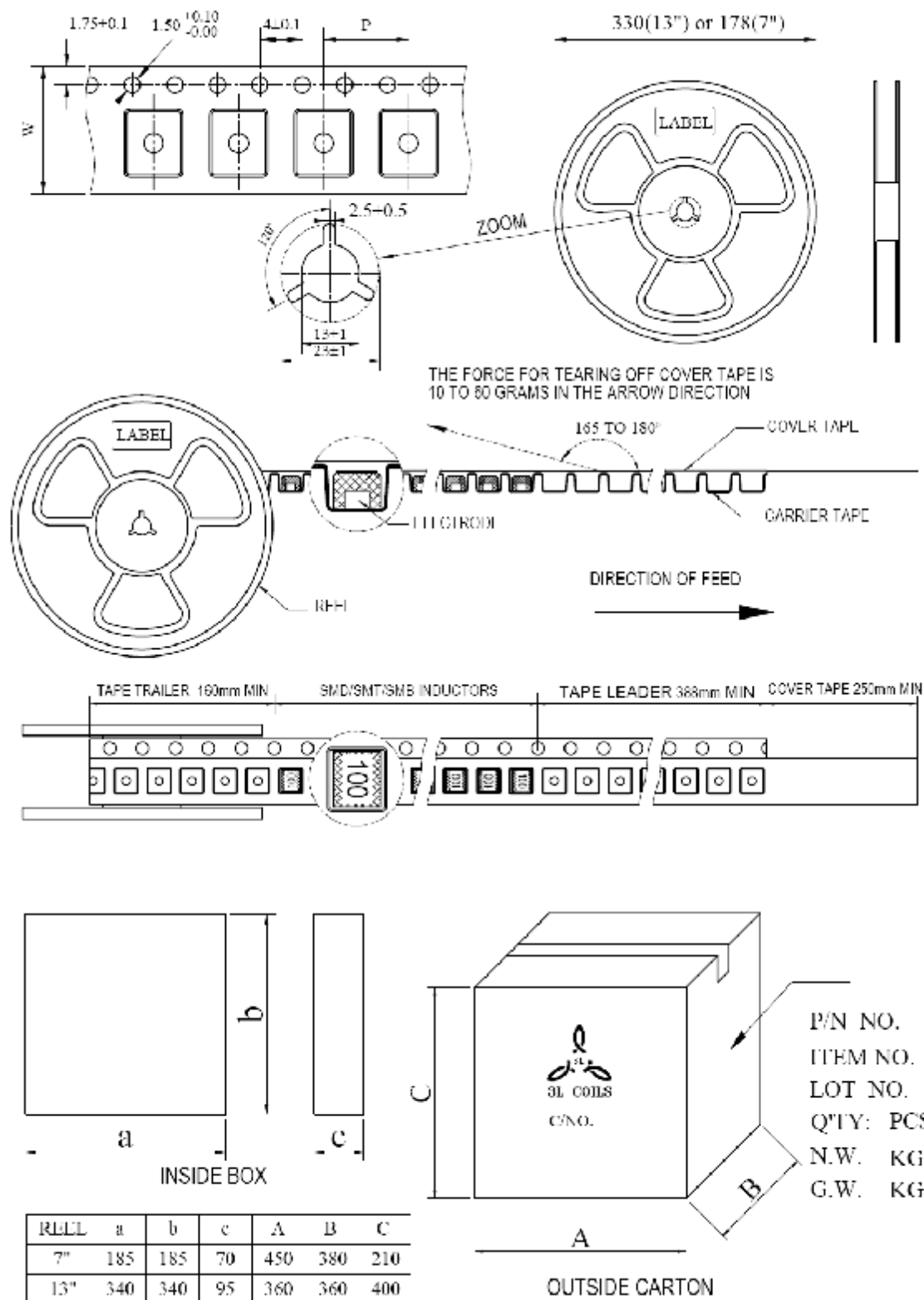


Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7''	13''	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0603	16	12		1500	1.85kg	2	3k	12k	17.0kg

UPI FS0612 SERIES

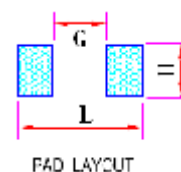
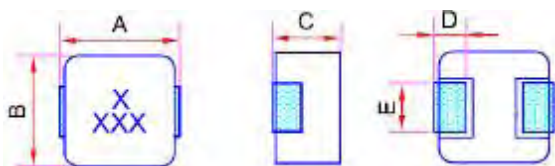
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIFS0612	7.25	6.72	1.2	1.6±0.3	3.0±0.5	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F S 0612 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0612** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

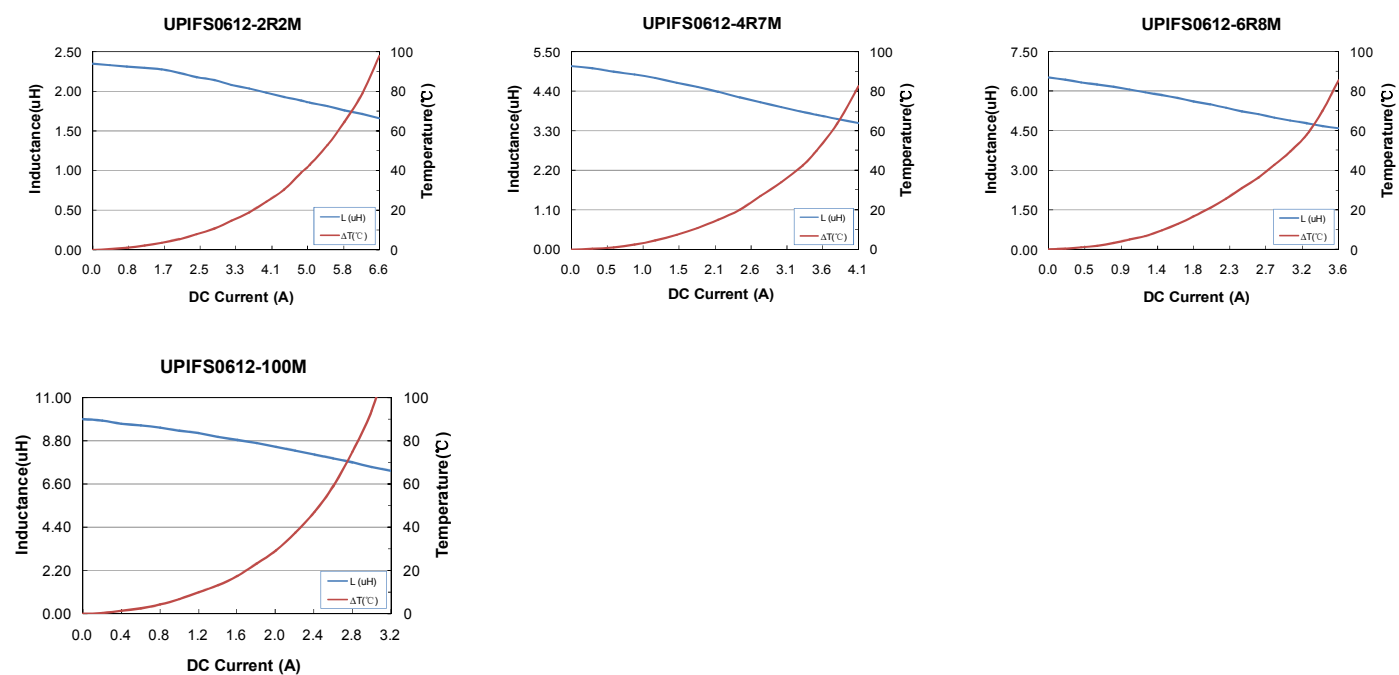
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIFS0612 series

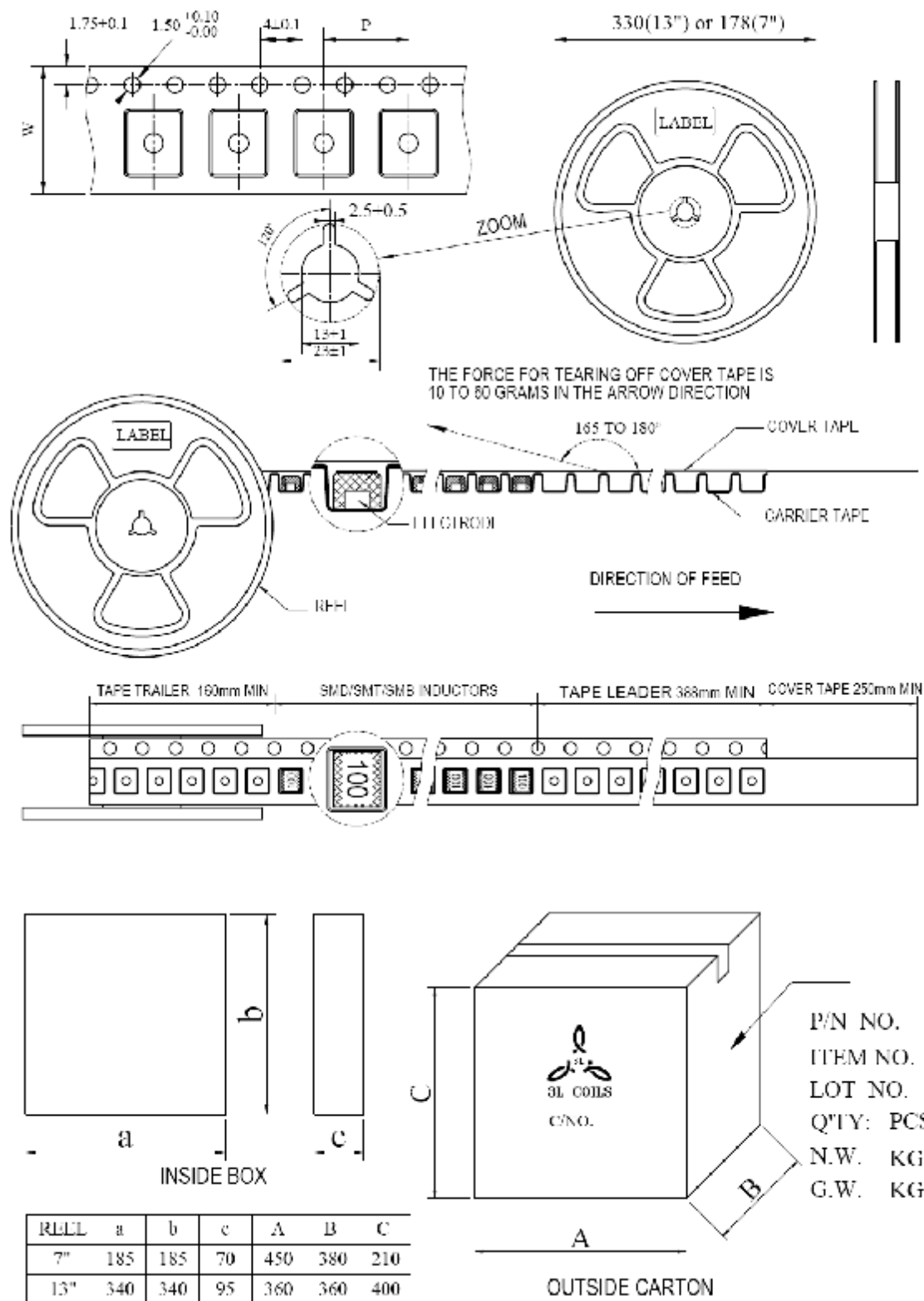
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIFS0612-2R2M	2.2	54.0	59.0	5.0	3.0	3.0
UPIFS0612-4R7M	4.7	125.0	170.0	2.8	2.4	3.0
UPIFS0612-6R8M	6.8	181.0	217.0	2.4	2.1	3.0
UPIFS0612-100M	10.0	261.0	290.0	2.2	1.8	3.0

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

- **Tape and reel specification**



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0612	16	12		3000	1.2kg	2	6k	24k	11.5kg

UPI FS0615 SERIES

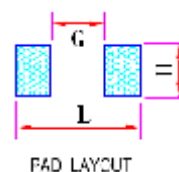
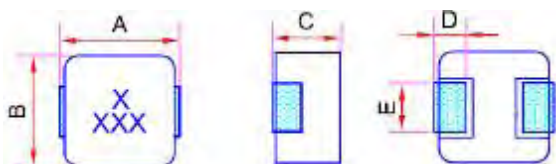
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIFS0615	7.25	6.72	1.5	1.6±0.3	3.0±0.5	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **F** type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Product Identification :

UPI F S 0615 - 2R2 M

(1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors**.
- (2) Style : **F**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0615** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Handling and precautions :

- Please contact us before cleaning this product.

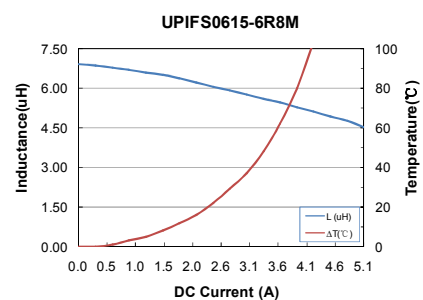
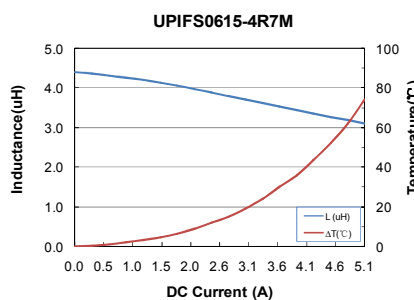
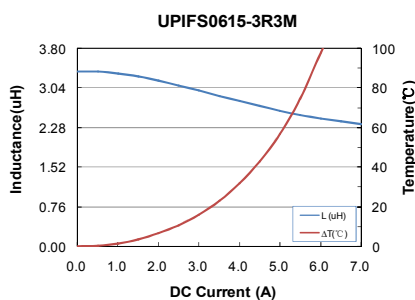
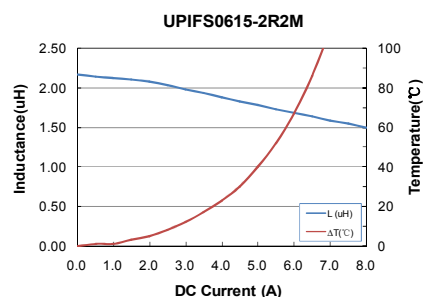
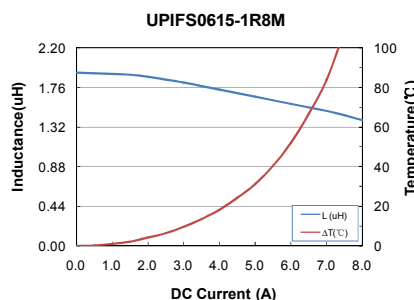
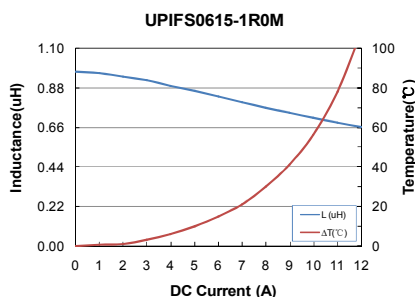
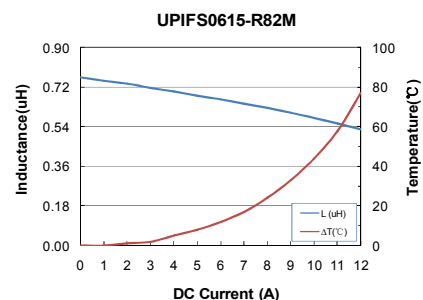
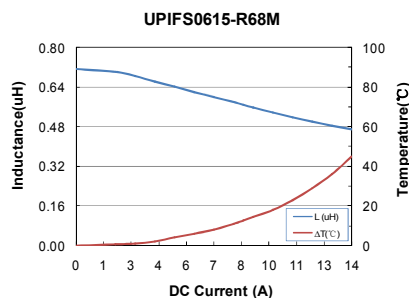
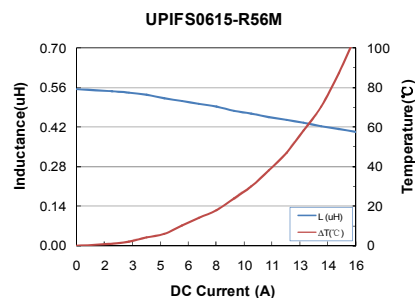
Test equipments :

- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C

● UPIFS0615 series

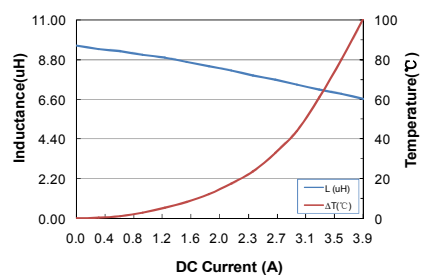
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIFS0615-R56M	0.56	9.8	11.0	14.0	9.0	3.0
UPIFS0615-R68M	0.68	10.5	12.0	12.0	8.5	3.0
UPIFS0615-R82M	0.82	14.5	17.0	10.0	7.0	3.0
UPIFS0615-1R0M	1.0	18.5	21.0	9.0	5.5	3.0
UPIFS0615-1R8M	1.8	40.5	45.0	6.5	4.5	3.0
UPIFS0615-2R2M	2.2	49.0	54.0	6.0	3.5	3.0
UPIFS0615-3R3M	3.3	59.0	63.0	5.5	3.3	3.0
UPIFS0615-4R7M	4.7	75.0	85.0	5.0	3.2	3.0
UPIFS0615-6R8M	6.8	122.0	135.0	4.0	2.5	3.0
UPIFS0615-100M	10.0	169.0	175.0	3.0	2.0	3.0

Typical performance curves :





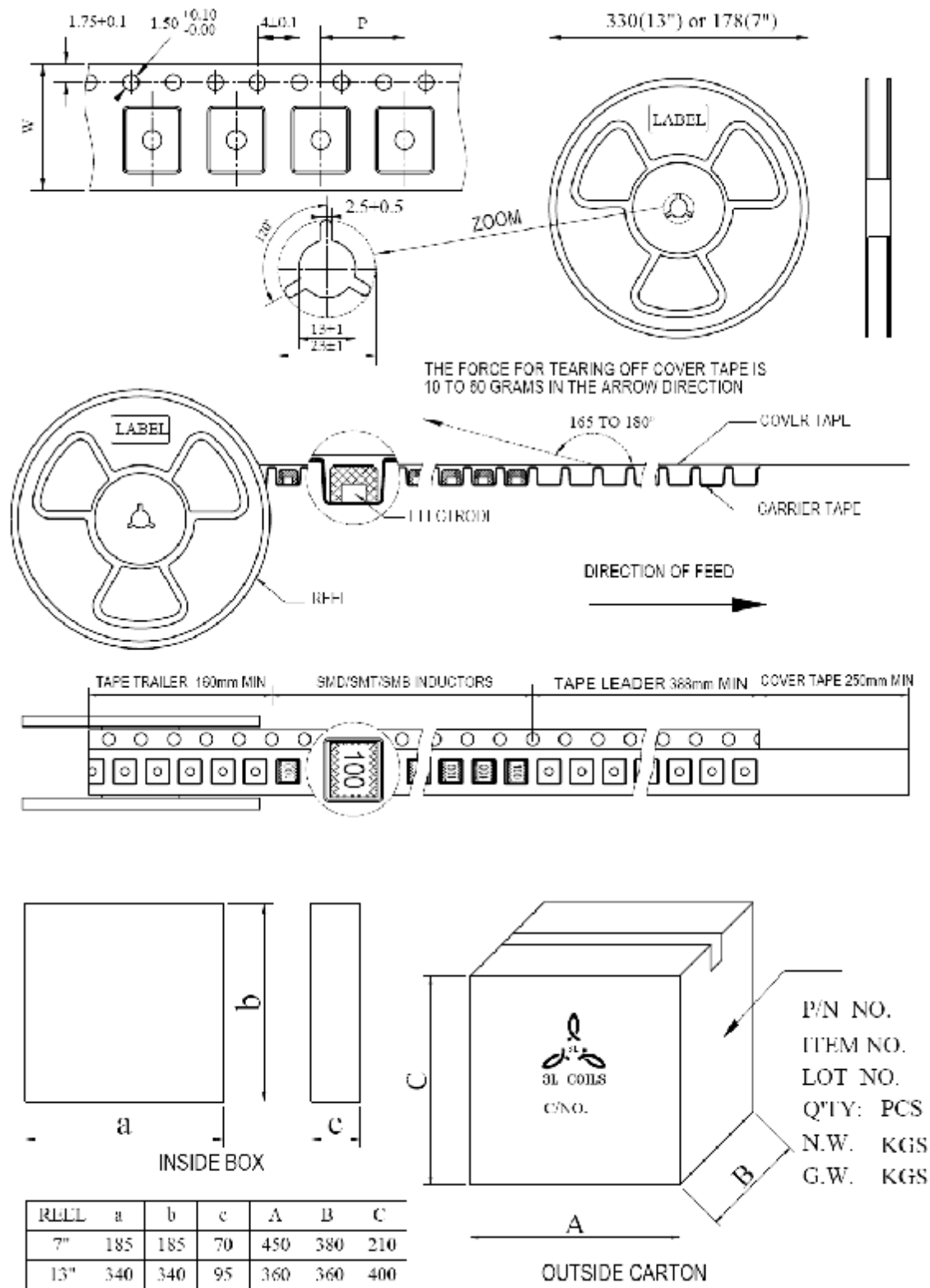
UPIFS0615-100M



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



● Tape and reel specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0615	16	12		2000	1.1kg	2	4k	16k	10.8kg



TCT SERIES

TOROID CORE AND LEAD TERMINALS.

Applications :

- VCD, DVD and TV circuits .
- Microcomputer and peripheral devices .

Characteristics :

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T=20^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

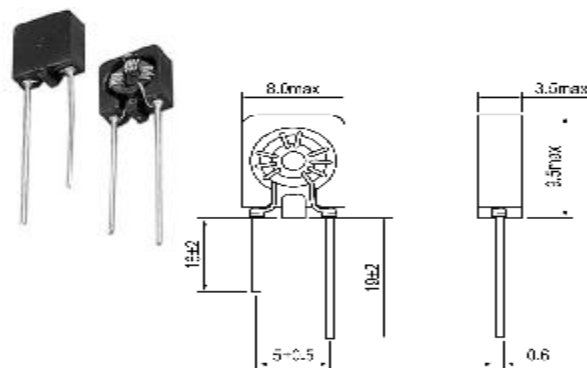
Features :

- Ideal for EMI protection.
- Highly accurate dimensions and taped for auto-insertion.

Test equipments and test setup :

- L: CH100 LCR meter or equal equipment.
- Impedance: HP4191A RF impedance analyzer.
- Operating temperature : -25°C to 85°C

Shape and Dimensions(unit:mm):



Product Identification :

TCT - 8R2UH - 45153 - T

(1) (2) (3) (4)

(1) Type: Toroid Core + lead Terminals

(2) Inductance: "8R2UH" for 8.2 uH.

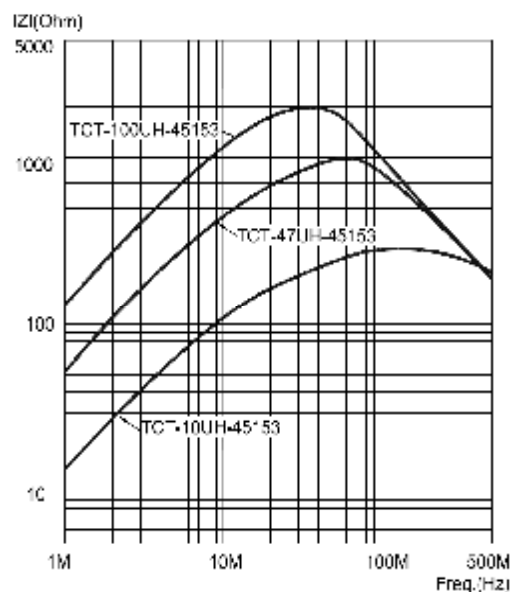
(3) Core size:

OD=4.5 mm; HT=1.5 mm; ID=3.0mm

(4) Packing : "T": Tape (2000 pcs), No code: Bulk.

Part No.	L @1kHz (uH)	DCR (mΩ) Max.	Rated Current (mA)
TCT-4R7UH-45153	4.7±50%	20	200
TCT-8R2UH-45153	8.2±50%	25	200
TCT-10UH-45153	10±35%	25	500
TCT-22UH-45153	22±35%	30	500
TCT-33UH-45153	33±35%	35	500
TCT-39UH-45153	39±35%	40	500
TCT-47UH-45153	47±35%	45	500
TCT-56UH-45153	56±35%	50	500
TCT-60UH-45153	60±35%	58	500
TCT-82UH-45153	82±35%	62	500
TCT-100UH-45153	100±35%	95	500
TCT-120UH-45153	120±35%	100	500

Impedance & Frequency curve



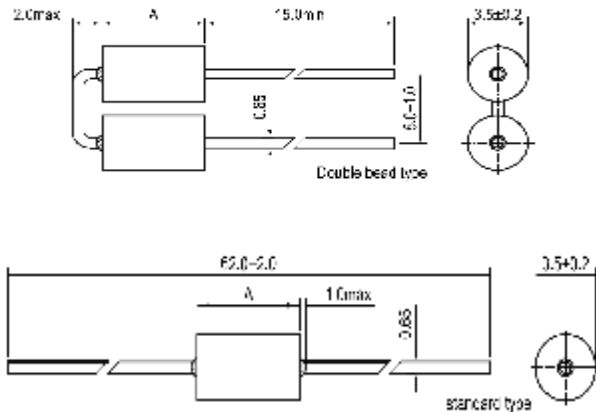
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



WBRH SERIES

WIDE BAND CHOKES.

Shape and Dimensions(unit:mm) :



3L N / P	A
WBRH-3.5X3X0.8	3.0±0.3
WBRH-3.5X4.5X0.8	4.5±0.3
WBRH-3.5X4.7X0.8	4.7±0.3
WBRH-3.5X5X0.8	5.0±0.3
WBRH-3.5X5.25X0.8	5.25±0.3
WBRH-3.5X6X0.8	6.0±0.3
WBRH-3.5X8X0.8	8.0±0.3
WBRH-3.5X9X0.8	9.0±0.3

Applications :

- Filtering of power input pins of oscillators or logic devices using high speed clocks . .
- Filtering of low frequency input / output signals

Features :

- Through hole leaded ferrite bead.
- Most economical component for through hole applications requiring discrete signal filtering.
- Higher current carrying capability than surface mount devices.
- Tape and reel packaging for auto- insertion.

Characteristics :

- Impedance ranges: 40 Ωs to 200Ωs.(@100MHz)
- Frequency ranges : 1MHz to 500MHz.
- Rated current: 3.0 Amps max.
- Operating temperature : -25 °C to 85 °C.

Part No.	Z @25MHz (Ω) Min.	Z @100MHz (Ω) Min.
WBRH-3.5X3X0.8	20	40
WBRH-3.5X4.7X0.8	20	50
WBRH-3.5X5X0.8	30	60
WBRH-3.5X5.25X0.8	30	60
WBRH-3.5X6X0.8	40	60
WBRH-3.5X8X0.8	50	85
WBRH-3.5X9X0.8	60	90
WBRH-3.5X6X0.8X2	80	120
WBRH-3.5X9X0.8X2	100	160

Product Identification :

WBRH - 3.5 X 4.7 X 0.8 - T5

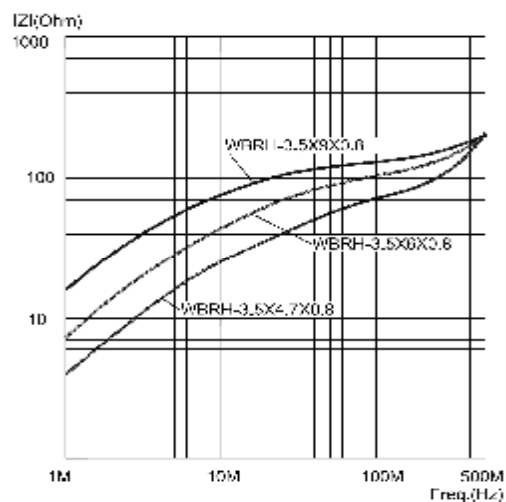
(1) (2) (3) (4) (5)

- Type: **Wide Band** chokes used **RH** type core.
- Core OD: **3.5mm**.
- Core length: **4.7mm**.
- Core ID: **0.8 mm**.
- Package: "**T5**": Tape, or "TF" Tape; No code: Bulk.

Test equipment :

- Impedance: HP4191A RF Impedance Analyzer.
- Electrical specifications at 25°C.

Impedance & Frequency curve





WBRID SERIES

WIDE BAND CHOKES USED RID TYPE CORE.

Applications :

EMI filters

- Wave for Correction of Digital Signals.
- Absorption of High Frequency Noise from data Lines.

Features :

- Low loss ferrite material.
- Easy mounting on PC board.
- Available in a wide range of values and configurations to suit most applications.
- Tape packaging for auto- insertion.

Characteristics :

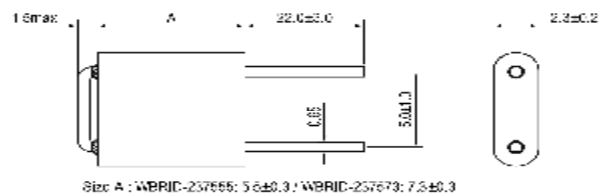
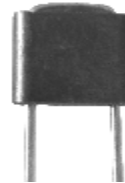
- Impedance ranges: 120Ωs to 300Ωs. (@100MHz)
- Frequency ranges : 1MHz to 500MHz.
- Rated current : 3.0 Amps max.
- Operating temp. : -25°C to 85°C.

Test equipment :

Impedance: HP4191A RF Impedance analyzer.

Part No.	Z (Ω) Min.		
	25MHz	100MHz	300MHz
WBRID-237555-H7S-TF8	70	120	140
WBRID-237573-H7S-TF8	90	160	165

Shape and Dimensions(unit:mm) :



Product Identification :

WBRID - 237555 - H7S - TF8

(1) (2) (3) (4)

(1) Type: **Wide Band** chokes used **RID** type core.

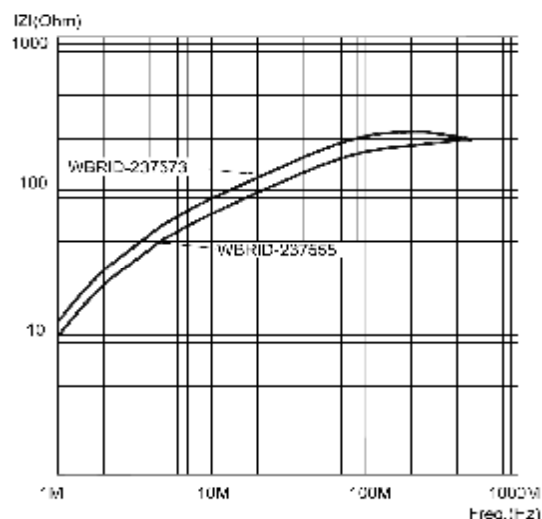
(2) Style: Core size

T=2.3mm; W=7.5mm; L= 5.5mm.

(3) Core material: For **H7S** or equal core.

(4) Packing: Taping; No code: Bulk.

Impedance & Frequency curve

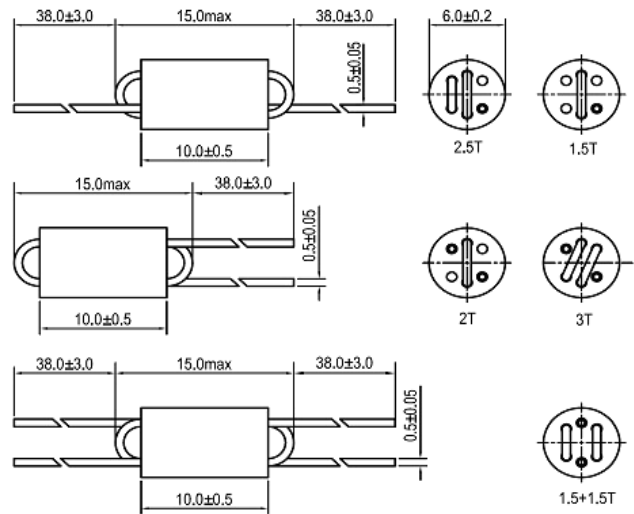
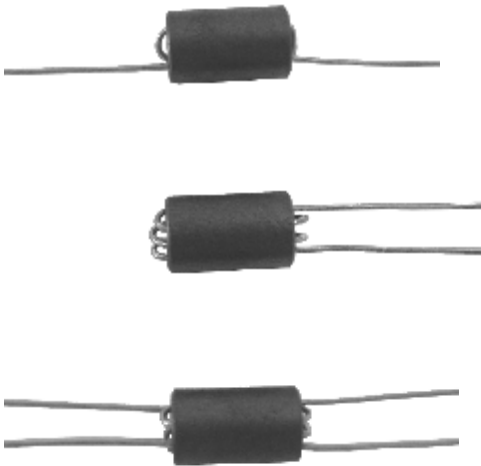


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

WBR6H SERIES

WIDE BAND CHOKES USED R6H TYPE CORE

Shape and size(unit: mm):



Features:

- Compact , medium current (up to 3 Amps) high impedance EMI suppression component.
- Five turns configurations can provide the impedance higher than 600 Ωs.

Product Identification:

WBR6H - 2.5T - H6A

(1) (2) (3)

- (1) Type: **Wide Band** chokes used **R6H** type core.
- (2) **Number of turns**.
- (3) Core material: **H6A**; **HGB**; **Y2F**; or equal core.

Characteristics:

- Impedance ranges: 200Ω to 1500Ω @100MHz
- Frequency ranges : 1MHz to 300MHz.
- Rated current : 3.0 Amps max.
- Operating temperature : -25 °C to 85 °C.

Test equipment:

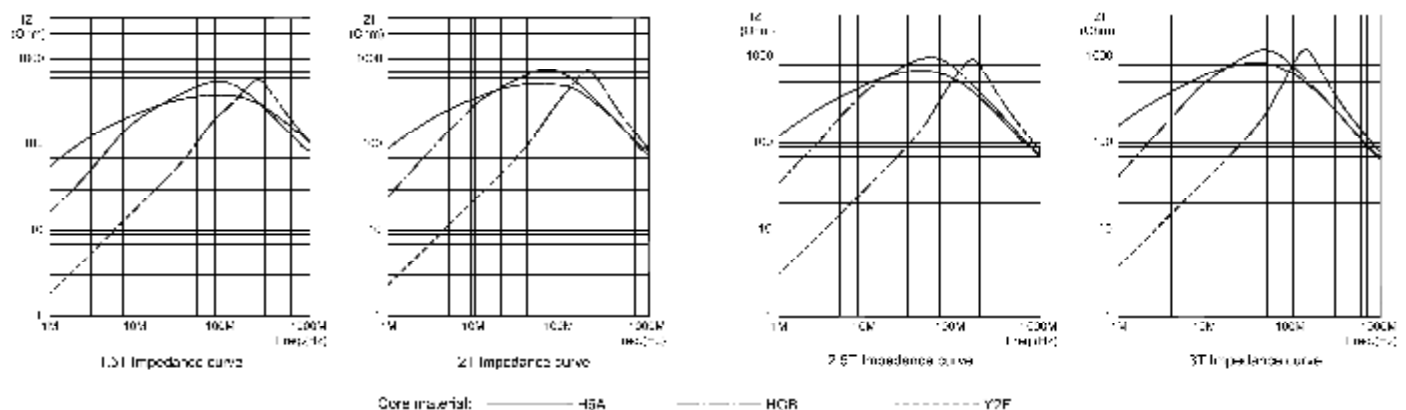
Impedance: HP 4191A RF Impedance Analyzer.

Applications:

- Power and signal filtering.
- High frequency board band transformers (balun core devices).

Turns	Materials	Z(Ω) Min.	Freq.(MHz)
1.5T	H6A	280	120
	HGB	300	180
	Y2F	360	250
2T	H6A	400	50
	HGB	480	100
	Y2F	600	180
2.5T	H6A	600	50
	HGB	600	100
	Y2F	680	180
3T	H6A	680	50
	HGB	680	100
	Y2F	600	180
1.5+1.5T	H6A	600	50
	HGB	600	100
	Y2F	560	180

Impedance & Frequency Curve



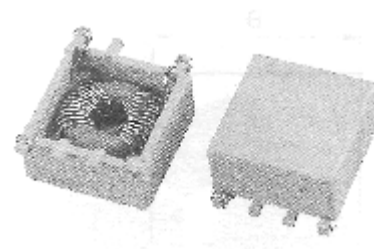


SMTLF SERIES

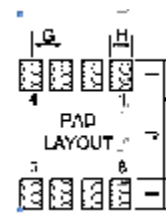
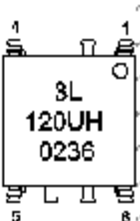
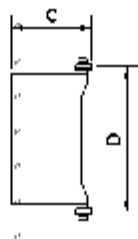
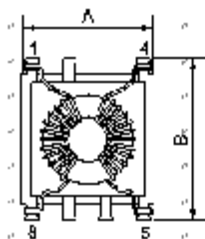
SMT COMMON MODE FILTER.

Applications :

- EMI filters.
- Personal computers.
- Communication equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
SMTLF632	9.1	11.2	5.6	10.0

Item	I	J	G	H
SMTLF632	2.54	7.6	2.54	1.8

Features :

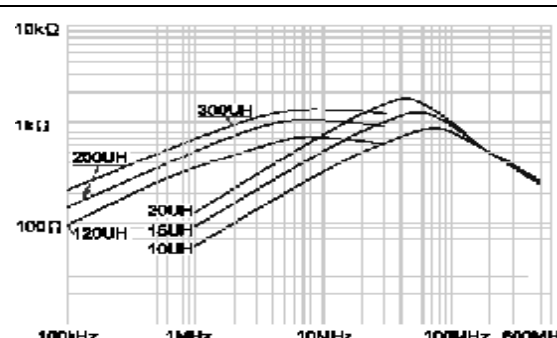
- Compact design.
- Single layer winding for minimum capacitance.
- Meets UL 94V-0 flammability standard.
- Available on tape and reel for auto surface mounting.
- In addition to the standard values shown, 3L can custom engineer parts for specific applications.
- Rated Current : The current when temperature of coil increase up to max. $\Delta T = 40^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)

Product identification :

SMT LF 632 - 120uH

(1) (2) (3) (4)

- (1) Type : **Surface Mountable Type.**
- (2) Style : **Common mode Line Filter.**
- (3) Core size : **OD=6.0mm, ID=3.0mm, Ht=2.0mm.**
- (4) Inductance : **120uH.**
- Operating temp. : **-25°C to 105°C**

Part No.	L1=L2 (uH) ±30%	DCR (Ω) Max.	Rated Current (A)	Impedance to Frequency curve
SMTLF632-10UH	10	25	2.5	
SMTLF632-15UH	15	40	2.0	
SMTLF632-20UH	20	70	1.5	
SMTLF632-120UH	120	25	2.5	
SMTLF632-200UH	200	40	2.0	
SMTLF632-300UH	300	70	1.5	

Impedance tested by HP4285A or HP4291B.

L tested by HP4284A Precision LCR meter @10kHz 10mV, DCR tested by Milli-ohm meter.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



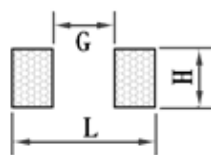
SMI SERIE

MULTILAYER FERRITE CHIP INDUCTORS.

Applications :

- CD-ROMs · Hard disks.
- Modems · Computers.
- Printers · Televisions.

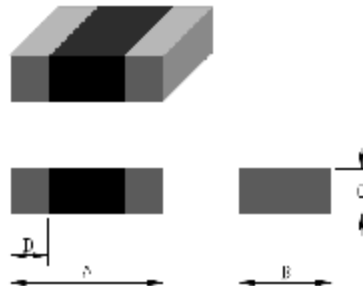
Recommended Pattern :



PAD LAYOUT

TYPE	G	L	H
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Shape and Dimensions (Dimensions are in mm) :



TYPE	A	B	C	D
160808	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.50±0.30
201212	2.0±0.20	1.25±0.20	1.25±0.20	0.50±0.30

Dimensions Conversion :

Code	Dimension in mm	EIA
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805
201212	2.0X1.2X1.2	0805

Product Identification :

SMI – 160808 – P EF – 47N K
(1) (2) (3) (4) (5) (6)

- (1) Product Code.
- (2) Dimensions (in mm).
- (3) P : For High Current.
- (4) Design Code.
- (5) Inductance.
- (6) Tolerance (K:10% · M:20% · N:30%).

Features :

I High Performance Characteristics

SMI chips exhibit low DC resistance and high Q at high frequency.

I Wide Inductance Range

SMI chip inductors cover a wide range of inductance values from 0.047 µH to 220 µH.

I High Reliability

SMI chip inductors have a monolithic inorganic material construction that effectively minimizes electromagnetic interference.

I High Soldering Heat Resistance

SMI chip inductors have high quality termination allowing both flow and reflow soldering methods to be used.

Test equipments :

L&Q&SRF By Agilent 4291A RF Impedance Analyzer with HP16197A Test Fixture.

DCR By milli-ohm meter.

- Electrical specifications at 25°C.

Operating Temperature : -55°C ~ 125°C.



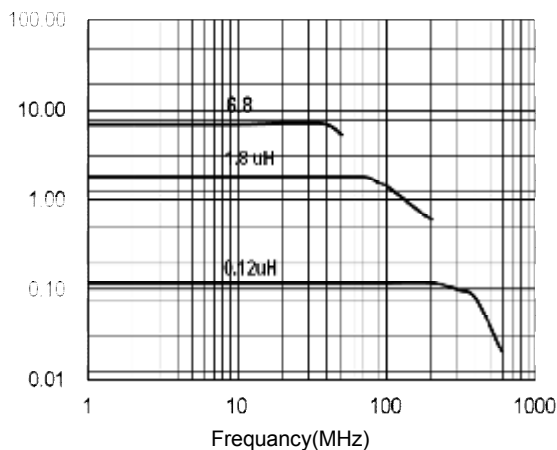
I SMI Series (General Circuit Application)

【SMI-160808 type】

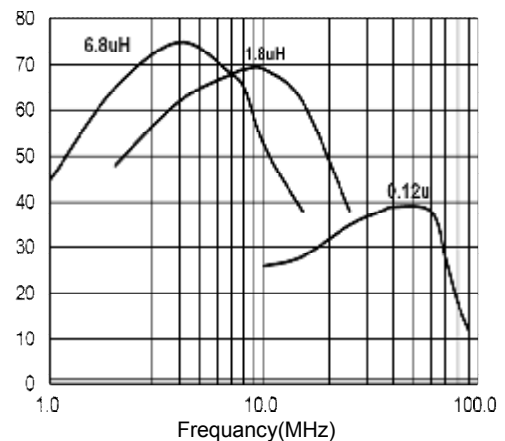
Part No.	L (μ H)	Q Min.	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-160808E-47NM	0.047	15	50	260	0.30	50
SMI-160808E-56NM	0.056	15	50	255	0.30	50
SMI-160808E-68NM	0.068	15	50	250	0.30	50
SMI-160808E-82NM	0.082	15	50	245	0.30	50
SMI-160808E-R10K	0.10	25	25	240	0.50	50
SMI-160808E-R12K	0.12	25	25	205	0.50	50
SMI-160808E-R15K	0.15	25	25	180	0.60	50
SMI-160808E-R18K	0.18	25	25	165	0.60	50
SMI-160808E-R22K	0.22	25	25	150	0.80	50
SMI-160808E-R27K	0.27	25	25	136	0.80	50
SMI-160808E-R33K	0.33	25	25	125	0.85	35
SMI-160808E-R39K	0.39	25	25	110	1.00	35
SMI-160808E-R47K	0.47	25	25	105	1.35	35
SMI-160808E-R56K	0.56	25	25	95	1.50	35
SMI-160808E-R68K	0.68	25	25	85	1.70	35
SMI-160808E-R82K	0.82	25	25	75	2.10	35
SMI-160808E-1R0K	1.00	35	10	65	0.68	25
SMI-160808E-1R2K	1.20	35	10	60	0.80	25
SMI-160808E-1R5K	1.50	35	10	55	0.80	25
SMI-160808E-1R8K	1.80	35	10	50	0.95	25
SMI-160808E-2R2K	2.20	35	10	45	1.10	15
SMI-160808E-2R7K	2.70	35	10	40	1.30	15
SMI-160808E-3R3K	3.30	35	10	38	1.50	15
SMI-160808E-3R9K	3.90	35	10	36	1.70	15
SMI-160808E-4R7K	4.70	35	10	33	2.10	15
SMI-160808E-5R6K	5.60	35	4	22	1.50	5
SMI-160808E-6R8K	6.80	35	4	20	1.70	5
SMI-160808E-8R2K	8.20	30	4	18	2.10	5
SMI-160808E-100K	10.0	30	2	17	2.55	5

Typical electrical curves :

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



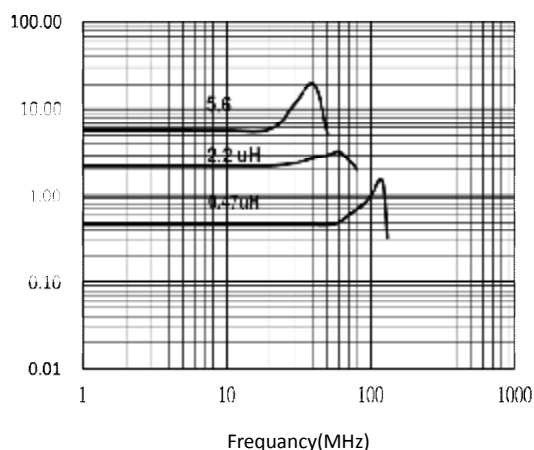


【SMI-201209 type】

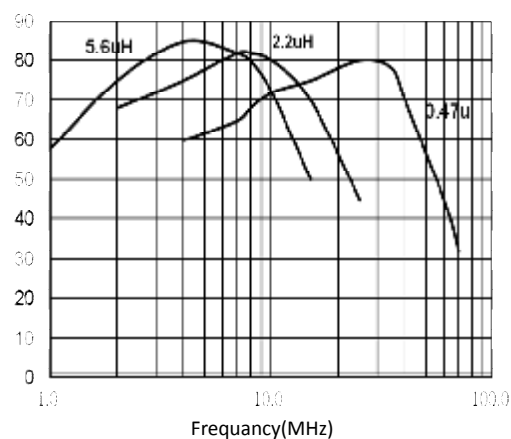
Part No.	L (uH)	Q Min.	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-201209E-47NM	0.047	20	50	320	0.20	300
SMI-201209E-56NM	0.056	20	50	320	0.20	300
SMI-201209E-68NM	0.068	20	50	280	0.20	300
SMI-201209E-82NM	0.082	20	50	255	0.20	300
SMI-201209E-R10K	0.10	25	25	235	0.30	250
SMI-201209E-R12K	0.12	25	25	220	0.30	250
SMI-201209E-R15K	0.15	25	25	200	0.40	250
SMI-201209E-R18K	0.18	25	25	185	0.40	250
SMI-201209E-R22K	0.22	25	25	170	0.50	250
SMI-201209E-R27K	0.27	25	25	150	0.50	250
SMI-201209E-R33K	0.33	25	25	145	0.55	250
SMI-201209E-R39K	0.39	25	25	135	0.65	250
SMI-201209E-R47K	0.47	25	25	125	0.65	250
SMI-201209E-R56K	0.56	25	25	115	0.75	150
SMI-201209E-R68K	0.68	25	25	105	0.80	150
SMI-201209E-R82K	0.82	25	25	100	1.00	150
SMI-201209E-1R0K	1.00	45	10	75	0.40	50
SMI-201209E-1R2K	1.20	45	10	65	0.50	50
SMI-201209E-1R5K	1.50	45	10	60	0.50	50
SMI-201209E-1R8K	1.80	45	10	55	0.60	50
SMI-201209E-2R2K	2.20	45	10	50	0.65	30
SMI-201212E-2R7K	2.70	45	10	45	0.75	30
SMI-201212E-3R3K	3.30	45	10	41	0.80	30
SMI-201212E-3R9K	3.90	45	10	38	0.90	30
SMI-201212E-4R7K	4.70	45	10	35	1.00	30
SMI-201212E-5R6K	5.60	45	4	32	0.90	15
SMI-201212E-6R8K	6.80	45	4	29	1.00	15
SMI-201212E-8R2K	8.20	45	4	26	1.10	15
SMI-201212E-100K	10.0	45	2	24	1.10	15

Typical electrical curves :

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics





I SMI-PEF series (General Circuit Application- Low DCR)

【SMI-160808PEF type】

Part No.	Inductance (uH)	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-160808PEF-47N□	0.047	1	260	0.12	150
SMI-160808PEF-56N□	0.056	1	260	0.12	150
SMI-160808PEF-68N□	0.068	1	250	0.12	150
SMI-160808PEF-82N□	0.082	1	245	0.12	150
SMI-160808PEF-R10□	0.10	1	240	0.15	150
SMI-160808PEF-R12□	0.12	1	205	0.20	150
SMI-160808PEF-R15□	0.15	1	180	0.20	150
SMI-160808PEF-R18□	0.18	1	165	0.20	150
SMI-160808PEF-R22□	0.22	1	150	0.25	150
SMI-160808PEF-R27□	0.27	1	136	0.30	100
SMI-160808PEF-R33□	0.33	1	125	0.30	100
SMI-160808PEF-R39□	0.39	1	110	0.35	100
SMI-160808PEF-R47□	0.47	1	105	0.45	100
SMI-160808PEF-R56□	0.56	1	95	0.45	100
SMI-160808PEF-R68□	0.68	1	90	0.55	100
SMI-160808PEF-R82□	0.82	1	85	0.60	100
SMI-160808PEF-1R0□	1.0	1	75	0.30	150
SMI-160808PEF-1R2□	1.2	1	65	0.30	150
SMI-160808PEF-1R5□	1.5	1	60	0.35	120
SMI-160808PEF-1R8□	1.8	1	55	0.40	120
SMI-160808PEF-2R2□	2.2	1	50	0.50	120
SMI-160808PEF-2R7□	2.7	1	45	0.60	100
SMI-160808PEF-3R3□	3.3	1	40	0.65	80
SMI-160808PEF-3R9□	3.9	1	35	0.70	80
SMI-160808PEF-4R7□	4.7	1	33	0.75	60
SMI-160808PEF-5R6□	5.6	1	22	0.90	60
SMI-160808PEF-6R8□	6.8	1	20	0.90	60
SMI-160808PEF-8R2□	8.2	1	18	1.05	60
SMI-160808PEF-100□	10	1	17	1.15	60

NOTE: M±20%,N:±30%

【SMI-201209PEF type】

Part No.	Inductance (uH)	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-201209PEF-47N□	0.047	1	320	0.15	350
SMI-201209PEF-56N□	0.056	1	320	0.15	350
SMI-201209PEF-68N□	0.068	1	280	0.20	350
SMI-201209PEF-82N□	0.082	1	280	0.20	350
SMI-201209PEF-R10□	0.10	1	235	0.20	350
SMI-201209PEF-R12□	0.12	1	220	0.20	350
SMI-201209PEF-R15□	0.15	1	200	0.20	350
SMI-201209PEF-R18□	0.18	1	185	0.25	300
SMI-201209PEF-R22□	0.22	1	170	0.25	300

Part No.	Inductance (uH)	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-201209PEF-R27□	0.27	1	150	0.25	300
SMI-201209PEF-R33□	0.33	1	145	0.25	300
SMI-201209PEF-R39□	0.39	1	135	0.30	250
SMI-201209PEF-R47□	0.47	1	125	0.30	250
SMI-201209PEF-R56□	0.56	1	115	0.36	200
SMI-201209PEF-R68□	0.68	1	105	0.36	200
SMI-201209PEF-R82□	0.82	1	100	0.36	200
SMI-201209PEF-1R0□	1.0	1	75	0.26	220
SMI-201209PEF-1R2□	1.2	1	65	0.26	220
SMI-201209PEF-1R5□	1.5	1	60	0.30	180
SMI-201209PEF-1R8□	1.8	1	55	0.30	180
SMI-201209PEF-2R2□	2.2	1	50	0.36	150
SMI-201209PEF-2R7□	2.7	1	45	0.36	150
SMI-201209PEF-3R3□	3.3	1	41	0.40	120
SMI-201209PEF-3R9□	3.9	1	38	0.40	120
SMI-201209PEF-4R7□	4.7	1	35	0.40	120
SMI-201209PEF-5R6□	5.6	1	32	0.60	100
SMI-201209PEF-6R8□	6.8	1	29	0.60	100
SMI-201209PEF-8R2□	8.2	1	26	0.65	100
SMI-201209PEF-100□	10.0	1	24	0.65	100

NOTE:M±20%,N:±30%

I SMI-PDF Series (General Circuit Application- High Current and low DCR)

【SMI-201209PDF type】

Part No.	Inductance (uH)	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-201209PDF-47N□	0.047	1	280	0.10	1100
SMI-201209PDF-56N□	0.056	1	280	0.10	1100
SMI-201209PDF-68N□	0.068	1	250	0.15	1100
SMI-201209PDF-82N□	0.082	1	250	0.15	1100
SMI-201209PDF-R10□	0.10	1	210	0.15	1100
SMI-201209PDF-R12□	0.12	1	200	0.15	1100
SMI-201209PDF-R15□	0.15	1	175	0.15	1100
SMI-201209PDF-R18□	0.18	1	160	0.15	1100
SMI-201209PDF-R22□	0.22	1	150	0.15	1100
SMI-201209PDF-R27□	0.27	1	130	0.15	1100
SMI-201209PDF-R33□	0.33	1	120	0.15	1100
SMI-201209PDF-R39□	0.39	1	110	0.30	1100
SMI-201209PDF-R47□	0.47	1	100	0.30	1100
SMI-201209PDF-R56□	0.56	1	100	0.2	800
SMI-201209PDF-R68□	0.68	1	95	0.2	800
SMI-201209PDF-R82□	0.82	1	90	0.2	800
SMI-201209PDF-1R0□	1.00	1	75	0.24	800
SMI-201209PDF-1R2□	1.20	1	65	0.24	800



Part No.	Inductance (uH)	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMI-201209PDF-1R5□	1.5	1	60	0.30	700
SMI-201209PDF-1R8□	1.8	1	55	0.36	600
SMI-201209PDF-2R2□	2.2	1	50	0.36	600
SMI-201209PDF-2R7□	2.7	1	45	0.36	600
SMI-201209PDF-3R3□	3.3	1	41	0.40	350
SMI-201209PDF-3R9□	3.9	1	38	0.40	350
SMI-201209PDF-4R7□	4.7	1	35	0.40	350
SMI-201209PDF-5R6□	5.6	1	32	0.50	250
SMI-201209PDF-6R8□	6.8	1	29	0.50	250
SMI-201209PDF-8R2□	8.2	1	26	0.56	250
SMI-201209PDF-100□	10.0	1	24	0.56	250

NOTE:;M $\pm$ 20%,N: $\pm$ 30%

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMDWCMU SERIES

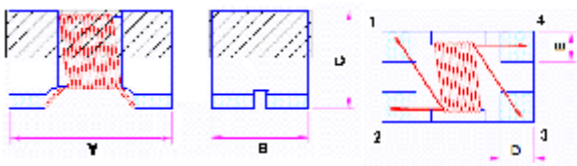
WIRE WOUND TYPE COMMON MODE FILTER

Applications :

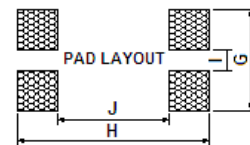
- Interface:LVDS for LCD,USB2.0, IEEE1394.
- Notebooks.personal computers and peripherals.
- High density digital equipments.



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B + 0.3/-0.2	C ± 0.2	D	E
2012	2.10	1.20	1.00	0.45	0.40



Item	G	H	I	J
2012	1.20	2.60	0.40	0.80

Features :

- High common mode impedance at high frequency. effects excellent noise suppression performance.
- Realizes small size and low profile.

Product Identification :

SMD WCM U 2012 S - 900 2P

(1) (2) (3) (4) (5) (6) (7)

- (1) Type : Surface Mount Devices.
- (2) Style : Wire Wound Type Common Mode Filter.
- (3) UV Epoxy.
- (4) Dimension : L=2.1mm, W=1.2mm.
- (5) Design Code.
- (6) Impedance : 900 for 90Ω.
- (7) 2P : 2 Lines.

Characteristics :

- Rated Current: The current when temperature of coil increase up to max.ΔT=30℃. (Ta=20℃)
- Rated voltage: DC 50V.
- Dielectric strength:125VDC (1minute between lines)
- Insulation resistance :10MΩ Min(100VDC,between Lines).
- Operating Temperature : -25℃ to 85℃

Test equipments :

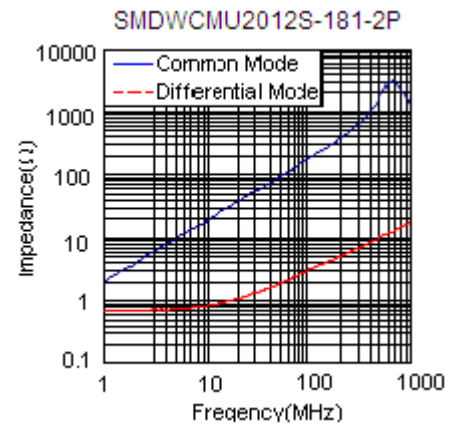
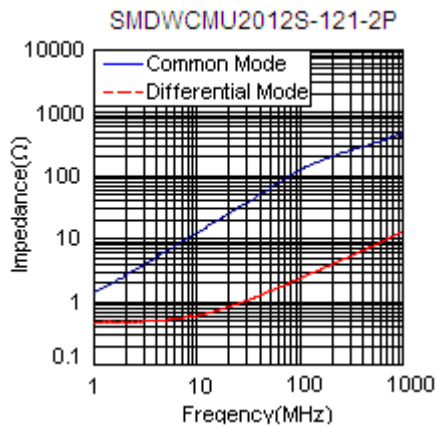
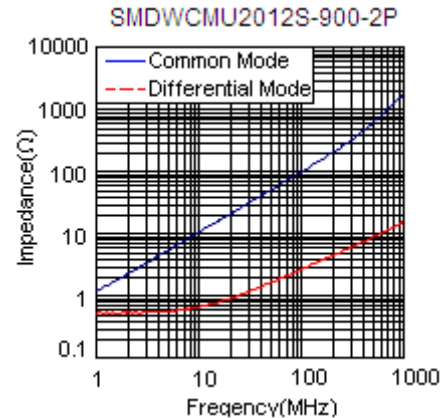
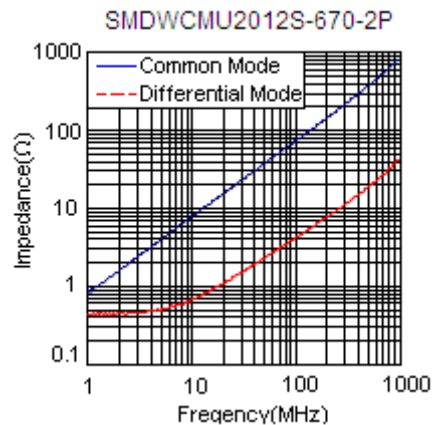
- Impedance: Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25℃.



I SMDWCM2012S series

Part No.	Impedance @100MHz (Ω) $\pm$ 25%	DCR (Ω) Max.	Rated Current (mA) Max.
SMDWCMU2012S-670-2P	67	0.35	330
SMDWCMU2012S-900-2P	90	0.35	330
SMDWCMU2012S-121-2P	120	0.45	280
SMDWCMU2012S-181-2P	180	0.50	250

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMDWCM SERIES

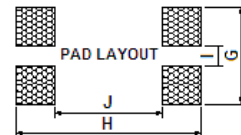
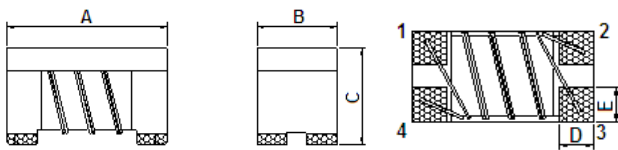
WIRE WOUND TYPE COMMON MODE FILTER.

Applications:

- Interface:LVDS for LCD,USB2.0, IEEE1394.
- Notebooks, personal computers and peripherals.



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C ± 0.2	D	E
2012	2.05	1.25	1.20	0.45	0.40
3216	3.20	1.60	1.90	0.60	0.60

Item	G	H	I	J
2012	1.20	2.60	0.40	0.80
3216	1.60	3.70	0.40	1.60

Features :

- High common mode impedance at high frequency. effects excellent noise suppression performance.
- Realizes small size and low profile.

Characteristics :

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T = 30^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Rated voltage: DC 50V.
- Dielectric strength: 125VDC (1minute between lines).
- Insulation resistance : 10M Ω Min(100VDC, between Lines) .
- Operating Temperature : -25°C to 85°C .

Product Identification :

SMD WCM 2012 S - 900 - 2P

(1) (2) (3) (4) (5) (6)

- (1) Type : Surface Mount Devices.
- (2) Style : Wire Wound Type Common Mode Filter.
- (3) Dimension : L=2.05mm, W=1.25mm.
- (4) Design Code.
- (5) Impedance : 900 for 90 Ω .
- (6) 2P : 2 Lines.

Test equipments :

- Impedance : Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR : Milli-ohm meter.
- Electrical specifications at 25°C .



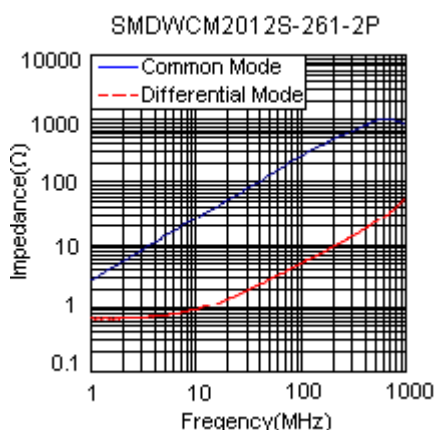
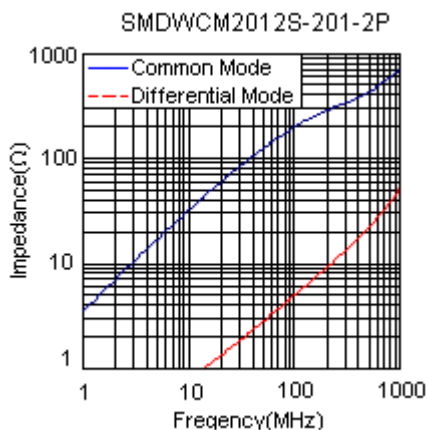
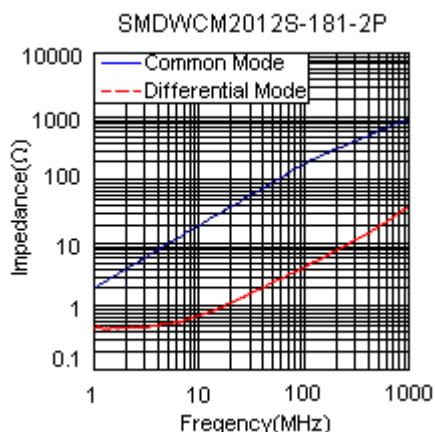
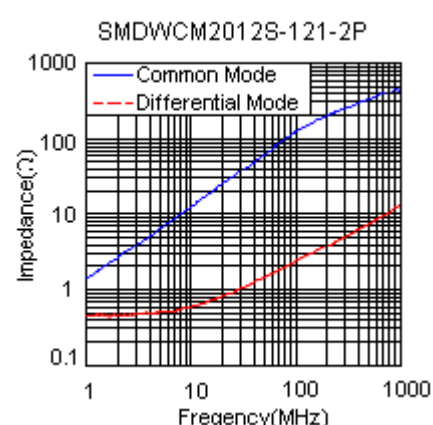
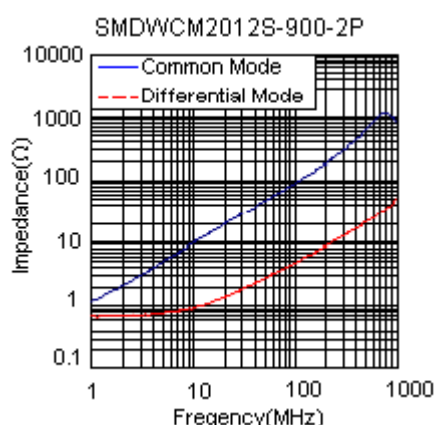
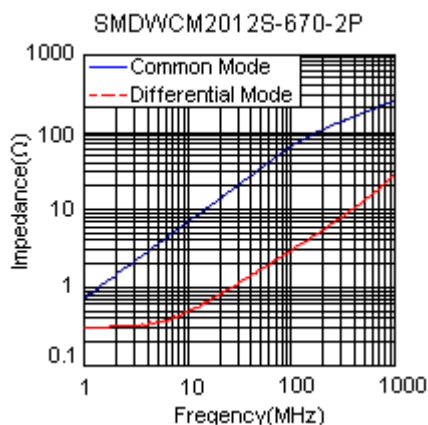
I SMDWCM2012S series

Part No.	Impedance @100MHz (Ω) $\pm$ 25%	DCR (Ω) Max.	Rated Current (mA) Max.
SMDWCM2012S-670-2P	67	0.25	400
SMDWCM2012S-900-2P	90	0.35	330
SMDWCM2012S-121-2P	120	0.30	370
SMDWCM2012S-181-2P	180	0.35	330
SMDWCM2012S-201-2P	200	0.35	330
SMDWCM2012S-261-2P	260	0.40	300
SMDWCM2012S-371-2P	370	0.40	280

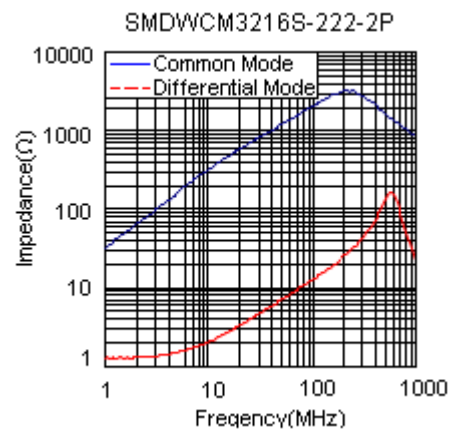
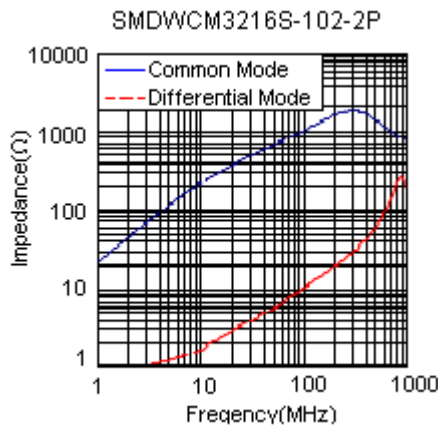
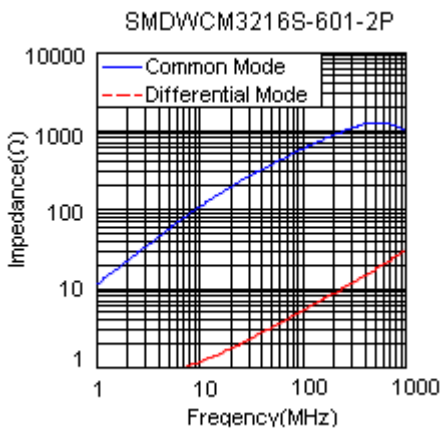
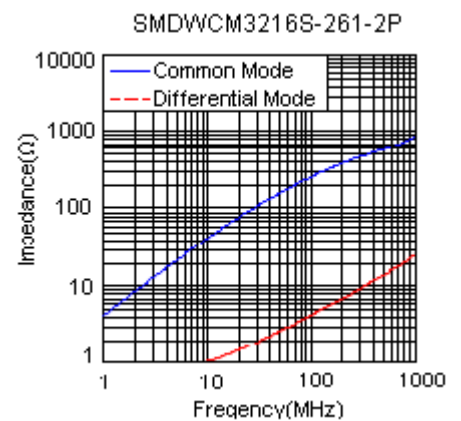
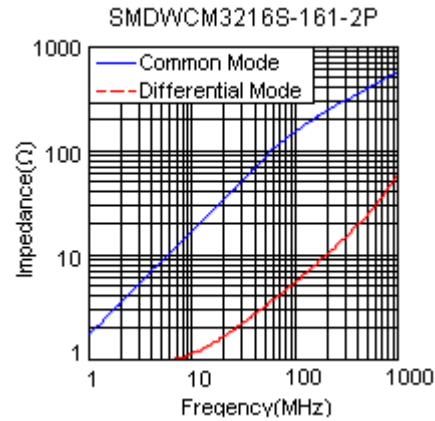
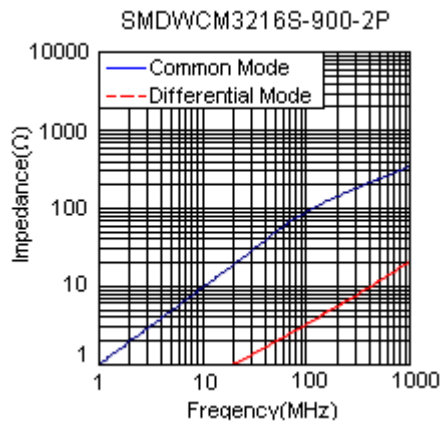
I SMDWCM3216S series

SMDWCM3216S-900-2P	90	0.30	370
SMDWCM3216S-161-2P	160	0.40	340
SMDWCM3216S-261-2P	260	0.50	310
SMDWCM3216S-601-2P	600	0.80	260
SMDWCM3216S-102-2P	1000	1.00	230
SMDWCM3216S-222-2P	2200	1.20	200

Typical performance curves :



Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

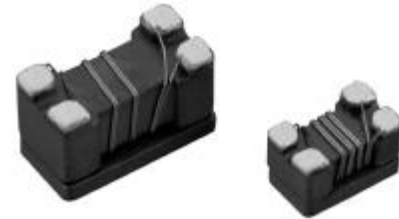


SMDWCM 2012BH SERIES

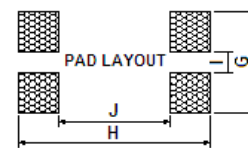
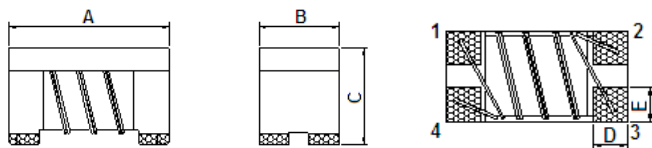
WIRE WOUND TYPE COMMON MODE FILTER

Applications :

- Interface:LVDS for LCD,USB2.0, IEEE1394,HDMI
- Notebooks.personal computers and peripherals.
- High density digital equipments.



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C ± 0.2	D	E
2012	2.00	1.20	1.20	0.45	0.40

Item	G	H	I	J
2012	1.20	2.60	0.40	0.80

Features :

- High common mode impedance at high frequency. effects excellent noise suppression performance.
- Realizes small size and low profile.

Product Identification :

SMD WCM 2012 BH - 900 2P

(1) (2) (3) (4) (5) (6)

- (1) Type : Surface Mount Devices.
- (2) Style : Wire Wound Type Common Mode Filter.
- (3) Dimension : L=2.0mm, W=1.2mm.
- (4) High frequency application : Shielding type for 6GHz
- (5) Impedance : 900 for 90Ω.
- (6) 2P : 2 Lines.

Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max.ΔT=30°C. (Ta=20°C)
- Rated voltage: DC 20V.
- Dielectric strength:125VDC (1minute between lines)
- Insulation resistance :10MΩ Min(100VDC,between Lines).
- Operating Temperature : -25°C to 85°C.

Test equipments :

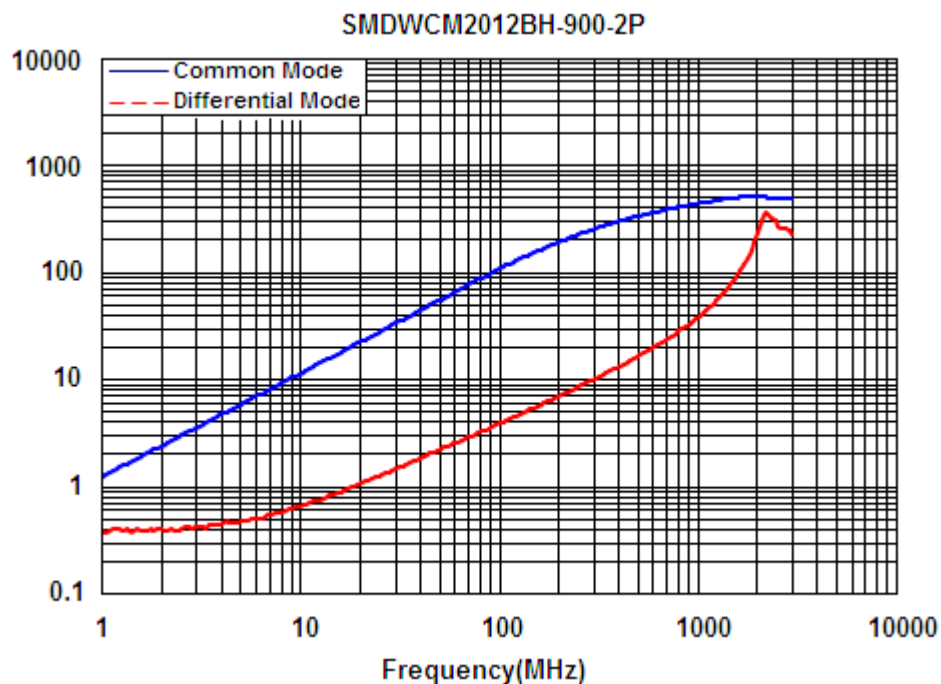
- Impedance : Agilent E4991A RF Impedance analyer With Agilent 16197A test fixture.
- DCR : Milli-ohm meter.
- Electrical specifications at 25°C.



I SMDWCM2012BH series

Part No	Impedance @100MHz (Ω) Min.	DCR (Ω) Max.	Rated Current (mA) Max.	Cut-off Frequency (GHz) Typ.	Characteristic Impedance (Ω) Typ.
SMDWCM2012BH-900-2P	65 (90 typ)	0.30	300	6.0	100

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



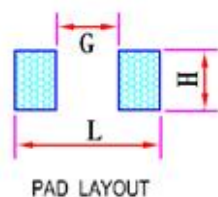
SMC SERIES

MULTILAYER CERAMIC CHIP INDUCTORS.

Applications :

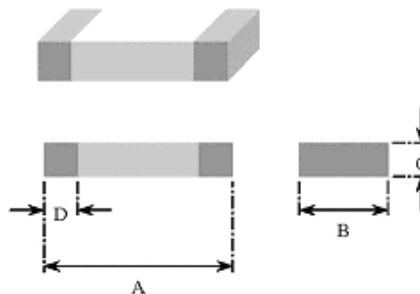
- Cellular Phones.
- Pag.
- High-Speed Communication Dev.

Recommended Pattern :



TYPE	G	L	H
100505	0.4	1.2 ~ 1.4	0.5
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6~0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Shape and Dimensions (Dimensions are in mm) :



TYPE	A	B	C	D
100505	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10
160808	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.50±0.30

Dimensions Conversion :

Code	Dimension in mm	EIA
100505	1.0X0.5X0.5	0402
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805

Product Identification :

SMC- 160808 E - 1N2 S
(1) (2) (3) (4) (5)

- (1) Product Code
- (2) Dimensions (in mm)
- (3) Design Code
- (4) Inductance
- (5) Tolerance (S: 0.3nH 、 J:5% 、 K:10%)

Features :

I High Frequency Range

SMC chip inductors have a ceramic material construction that extends the effective frequency range to 6 GHz.

I Multiple Size Availability

SMC chip inductors are available in three compact sizes: 100505, 160808 and 201209.

Test equipments :

L&Q&SRF by Agilent 4291A RF Impedance Analyzer with HP16197A Test Fixture.

DCR by milli-ohm meter.

Operating Temperature : -55°C ~ 125°C .



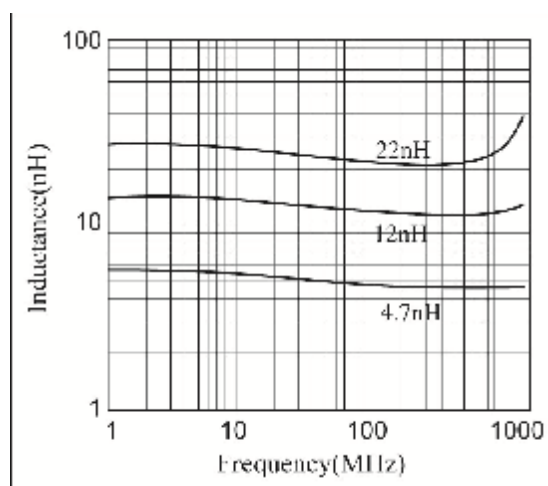
I SMC (High Frequency Application)

【SMC-100505E type】

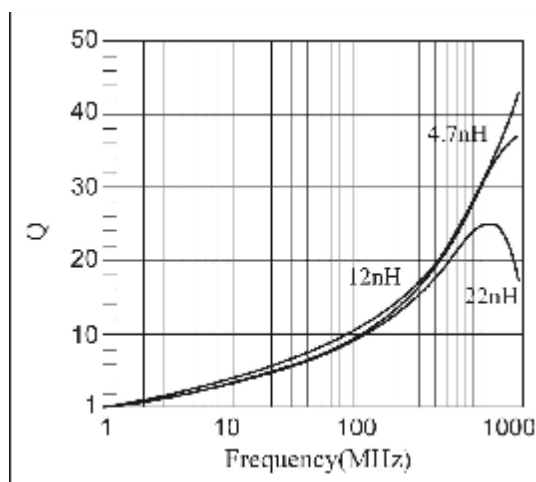
Part No.	Inductance (nH)	Q Min.	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMC-100505E-1N0S	1.0	8	100	10000	0.10	400
SMC-100505E-1N2S	1.2	8	100	10000	0.10	400
SMC-100505E-1N5S	1.5	8	100	9000	0.10	400
SMC-100505E-1N8S	1.8	8	100	8700	0.10	400
SMC-100505E-2N2S	2.2	8	100	8100	0.15	400
SMC-100505E-2N7S	2.7	8	100	7700	0.15	400
SMC-100505E-3N3□	3.3	8	100	6300	0.15	400
SMC-100505E-3N9□	3.9	8	100	6100	0.20	400
SMC-100505E-4N7□	4.7	8	100	5400	0.20	400
SMC-100505E-5N6□	5.6	8	100	5100	0.20	400
SMC-100505E-6N8□	6.8	8	100	4550	0.25	400
SMC-100505E-8N2□	8.2	8	100	4100	0.30	300
SMC-100505E-10N□	10	8	100	3900	0.35	300
SMC-100505E-12N□	12	8	100	3000	0.40	300
SMC-100505E-15N□	15	8	100	2600	0.50	300
SMC-100505E-18N□	18	8	100	2350	0.55	300
SMC-100505E-22N□	22	8	100	2000	0.70	300
SMC-100505E-27N□	27	8	100	1900	0.80	300
SMC-100505E-33N□	33	8	100	1700	1.00	200
SMC-100505E-39N□	39	8	100	1600	1.20	150
SMC-100505E-47N□	47	8	100	1300	1.30	150
SMC-100505E-56N□	56	8	100	1250	2.00	150
SMC-100505E-68N□	68	8	100	1000	2.20	100
SMC-100505E-82N□	82	8	100	900	2.50	100
SMC-100505E-R10□	100	8	100	850	2.50	100

Typical electrical curves :

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



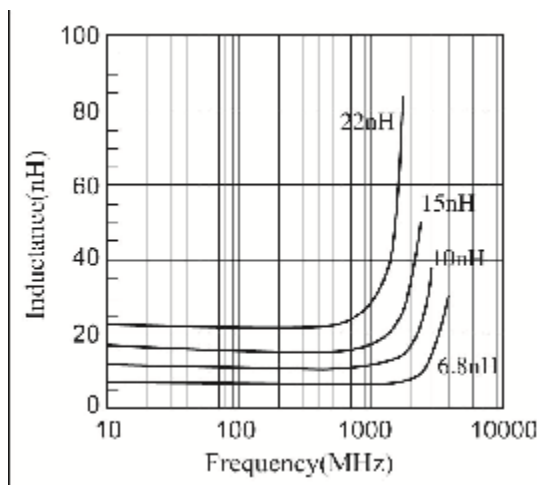


【SMC-160808E type】

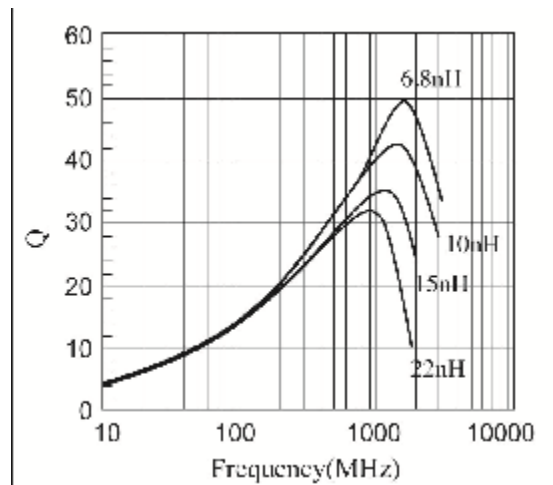
Part No.	Inductance (nH)	Q Min.	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMC-160808E-1N0S	1.0	8	100	10000	0.10	600
SMC-160808E-1N2S	1.2	8	100	10000	0.10	600
SMC-160808E-1N5S	1.5	8	100	8000	0.10	600
SMC-160808E-1N8S	1.8	8	100	8000	0.10	600
SMC-160808E-2N2S	2.2	8	100	7200	0.10	600
SMC-160808E-2N7S	2.7	10	100	6200	0.10	600
SMC-160808E-3N3S	3.3	10	100	5200	0.12	600
SMC-160808E-3N9S	3.9	10	100	5000	0.14	600
SMC-160808E-4N7S	4.7	10	100	4750	0.16	600
SMC-160808E-5N6S	5.6	10	100	4100	0.18	600
SMC-160808E-6N8□	6.8	10	100	3750	0.22	600
SMC-160808E-8N2□	8.2	10	100	3300	0.24	600
SMC-160808E-10N□	10	12	100	3000	0.26	600
SMC-160808E-12N□	12	12	100	2600	0.28	600
SMC-160808E-15N□	15	12	100	2500	0.32	600
SMC-160808E-18N□	18	12	100	2400	0.35	600
SMC-160808E-22N□	22	12	100	2000	0.40	500
SMC-160808E-27N□	27	12	100	1900	0.45	500
SMC-160808E-33N□	33	12	100	1600	0.55	400
SMC-160808E-39N□	39	12	100	1400	0.60	400
SMC-160808E-47N□	47	12	100	1300	0.70	400
SMC-160808E-56N□	56	12	100	1100	0.75	400
SMC-160808E-68N□	68	12	100	1050	0.85	400
SMC-160808E-82N□	82	12	100	900	1.00	300
SMC-160808E-R10□	100	12	100	770	1.20	300

Typical electrical curves :

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



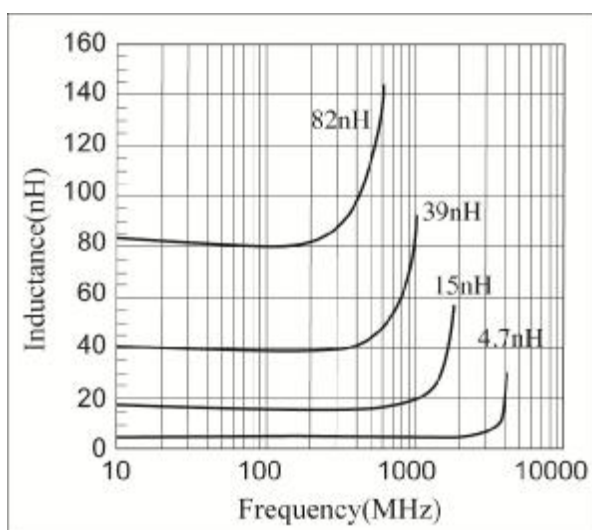


【SMC-201209E type】

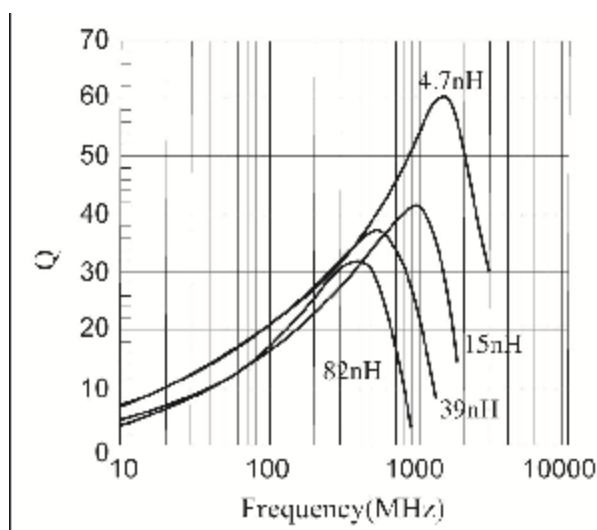
Part No.	Inductance (nH)	Q Min.	Test Freq. (MHz)	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMC-201209E-1N0S	1.0	10	100	>6000	0.10	300
SMC-201209E-1N2S	1.2	10	100	>6000	0.10	300
SMC-201209E-1N5S	1.5	10	100	>6000	0.10	300
SMC-201209E-1N8S	1.8	10	100	>6000	0.10	300
SMC-201209E-2N2S	2.2	10	100	>6000	0.10	300
SMC-201209E-2N7S	2.7	12	100	>6000	0.10	300
SMC-201209E-3N3S	3.3	12	100	>6000	0.13	300
SMC-201209E-3N9S	3.9	12	100	5400	0.15	300
SMC-201209E-4N7S	4.7	12	100	4500	0.20	300
SMC-201209E-5N6S	5.6	12	100	4000	0.23	300
SMC-201209E-6N8□	6.8	15	100	3650	0.23	300
SMC-201209E-8N2□	8.2	15	100	3000	0.28	300
SMC-201209E-10N□	10	15	100	2500	0.30	300
SMC-201209E-12N□	12	15	100	2450	0.35	300
SMC-201209E-15N□	15	15	100	2000	0.40	300
SMC-201209E-18N□	18	15	100	1750	0.45	300
SMC-201209E-22N□	22	15	100	1700	0.50	300
SMC-201209E-27N□	27	15	100	1550	0.55	300
SMC-201209E-33N□	33	15	100	1350	0.60	300
SMC-201209E-39N□	39	18	100	1300	0.65	300
SMC-201209E-47N□	47	18	100	1200	0.70	300
SMC-201209E-56N□	56	18	100	1150	0.75	300
SMC-201209E-68N□	68	18	100	1000	0.80	300
SMC-201209E-82N□	82	18	100	850	0.90	300
SMC-201209E-R10□	100	18	100	730	1.00	300

Typical electrical curves :

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMBM5H SERIES

SURFACE MOUNT BEADS

Applications :

- Power and signal filter.



Shape and Dimensions (Dimensions are in mm) :



Features :

- SMD wide band chokes.
- Medium current (up to 3 Amps), high impedance EMI suppression component.
- Tin-covered wire.

Product Identification :

SMB M5H – 1.5T – H7H

(1) (2) (3) (4)

- (1) Type : **Surface Mount Beads.**
- (2) Style : **M5H** Core.
- (3) Number of turns : **1.5 T** or **2.5 T**.
- (4) Core material : **"H7H"** or others.

Characteristics :

- Rated DC Current : 3.0A
- DC Resistance : 7.5 mΩ MAX.
- Operating temperature : -20°C to 105°C

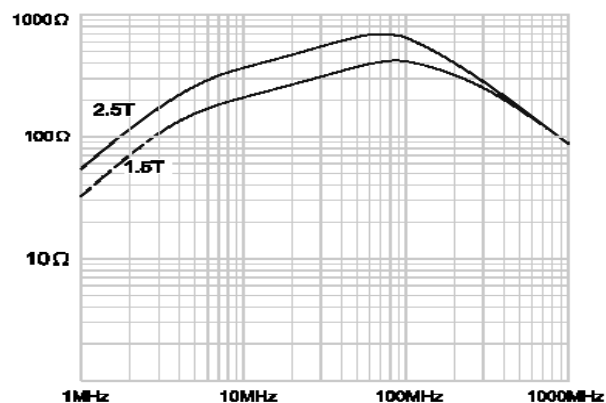
Test equipments :

- Impedance : Agilent E4991A RF Impedance Analyzer
- Electrical specifications at 25°C

I SMBM5H series

Part No.	Impedance (Ω) @10MHz Min.	Impedance (Ω) @50MHz Min.	Impedance (Ω) @100MHz Min.
SMBM5H-1.5T	230Ω	400Ω	430Ω
SMBM5H-2.5T	300Ω	625Ω	600Ω

Typical performance curves :

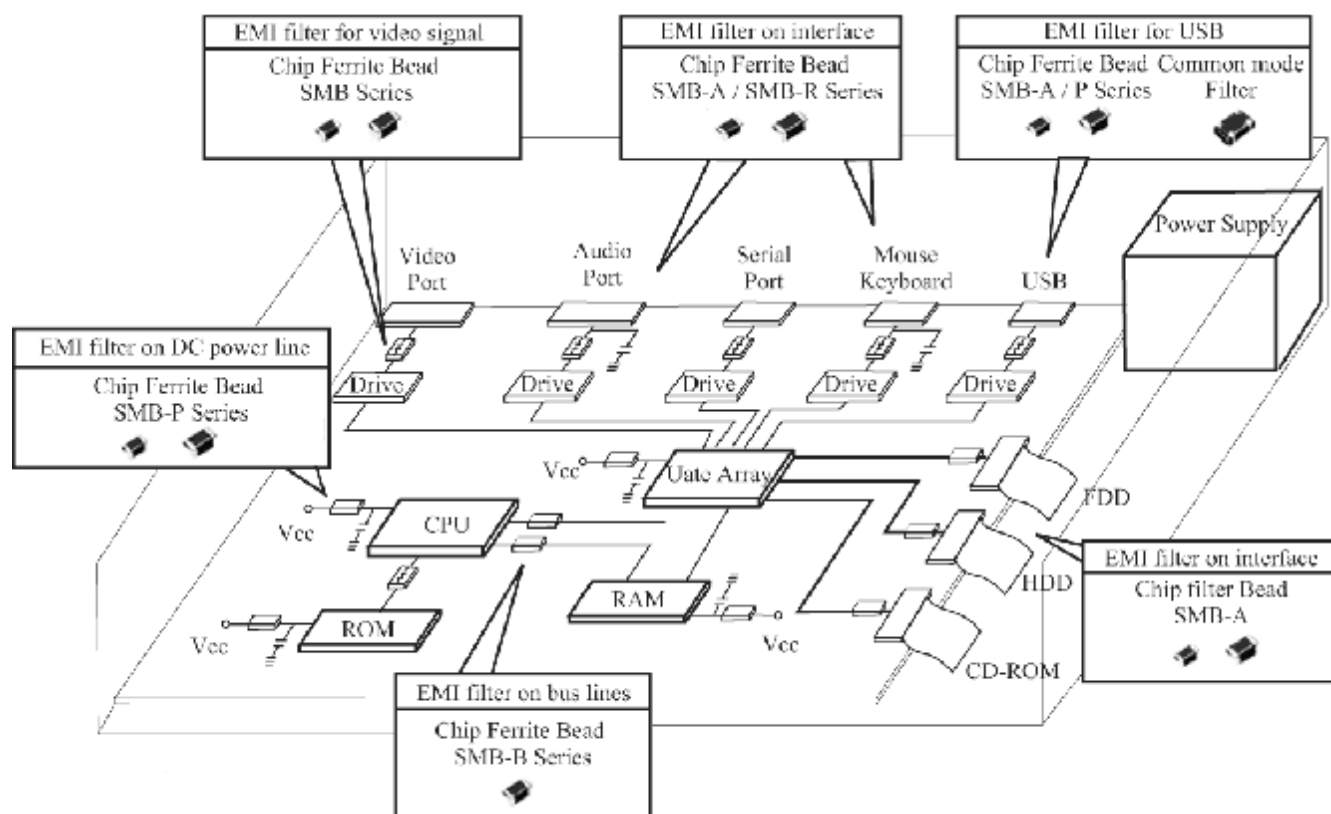


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

PRODUCT OVERVIEW

Type	Effective Range of Noise Suppression				Application
	1 MHz	10 MHz	100 MHz	1GHz	
SMB-A		■	■		General Signal Line (I/O Port)
SMB-B			■	■	High Speed Signal Line (LCD panel, Clock Signal, RAM Bus)
SMB-P		■	■		Large Current Line (3A to 6A)
SMB-R	■	■	■		Low Speed Signal Line, Ringing Prevention (Audio Signal, CMOS IC)
SMB-L		■	■		Medium Current Line (300mA to 1A)

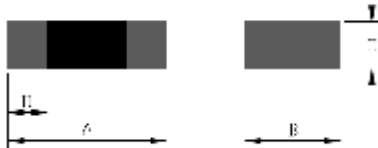
APPLICATION GUIDE



SMB SERIES

MULTILAYER FERRITE CHIP BEADS.

Shape and Dimensions(Dimensions are in mm):

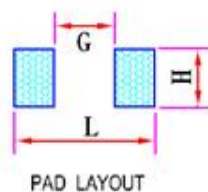


TYPE	A	B	C	D
100505	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10
160808	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.50±0.30
201212	2.0±0.20	1.25±0.20	1.25±0.20	0.50±0.30

Dimensions Conversion :

Code	Dimension in mm	EIA
100505	1.0X0.5X0.5	0402
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805
201212	2.0X1.2X1.2	0805

Recommended Pattern :



TYPE	G	L	H
100505	0.4	1.2 ~ 1.4	0.5
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Product Identification :

SMB – 160808 – E 2 – 121 A
 (1) (2) (3) (4) (5) (6)

- (1) Product Code
- (2) Dimensions (in mm)
- (3) Design Code
- (4) Material
- (5) Impedance
- (6) Identification for Series

Classifications :

I SMB A-Series Chip Beads

The A-series is designed for general purpose applications. This series covers a wide range of impedance characteristics.

I SMB B-Series Chip Beads

The B-series is designed for high frequency applications. This series minimizes attenuation of the signal waveform due to its sharp impedance characteristics

I SMB P-Series Chip Beads

The P-series is designed for high current applications. These chips are suitable for filtering noise near power lines and can match currents to a maximum of 6A DC.

I SMB L-Series Chip Beads

The L-series is designed for high Current & low DC resistance signal lines applications.

I SMB R-Series Chip Beads

The R-series is design for low Frequency applications. These chips are able to generate higher impedances at lower frequencies.

Test equipments :

Z By Agilent E4991A RF Impedance Analyzer with HP16197A Test Fixture.

DCR By milli-ohm meter.

Operating Temperature: -55°C ~ 125°C.

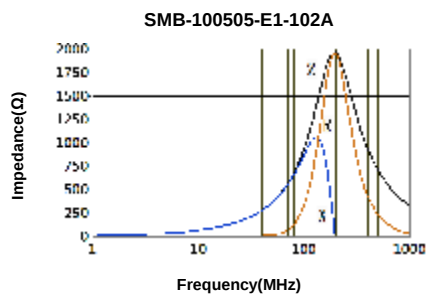
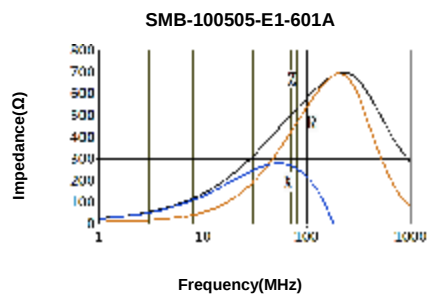
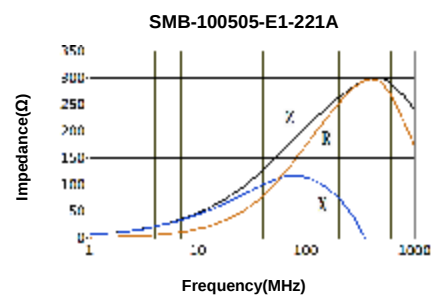
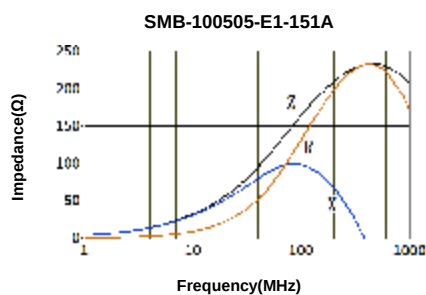
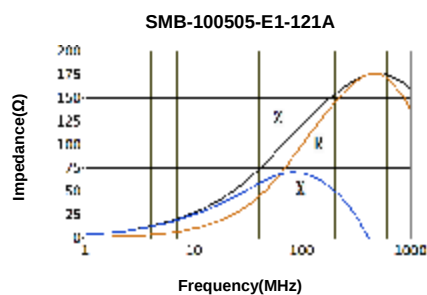
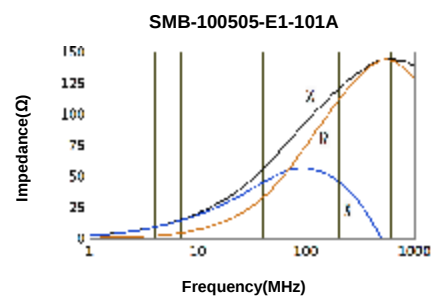
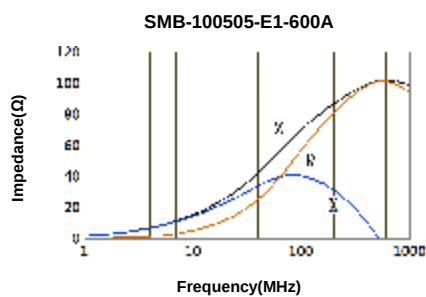
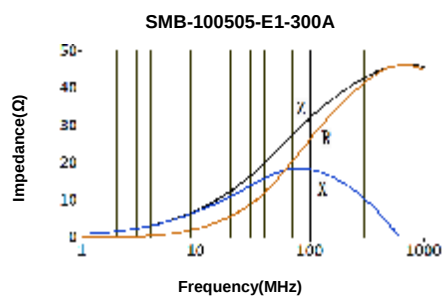


I SMB- A series (General Circuit Application)

【SMB-100505 A type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-100505-E1-300A	30 $\pm$ 25%	0.20	500
SMB-100505-E1-600A	60 $\pm$ 25%	0.20	500
SMB-100505-E1-101A	100 $\pm$ 25%	0.25	500
SMB-100505-E1-121A	120 $\pm$ 25%	0.25	500
SMB-100505-E1-151A	150 $\pm$ 25%	0.40	400
SMB-100505-E1-221A	220 $\pm$ 25%	0.40	400
SMB-100505-E1-601A	600 $\pm$ 25%	0.60	300
SMB-100505-E1-102A	1000 $\pm$ 25%	0.95	200

Typical performance curves :

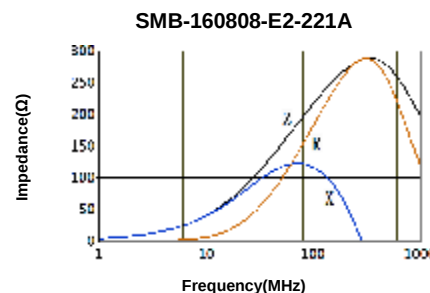
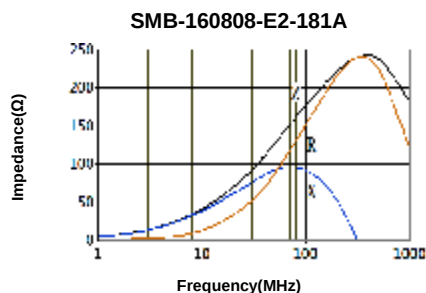
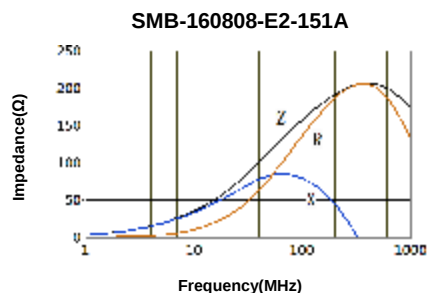
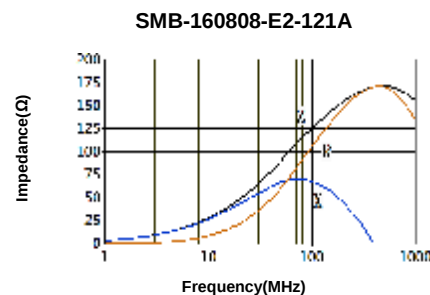
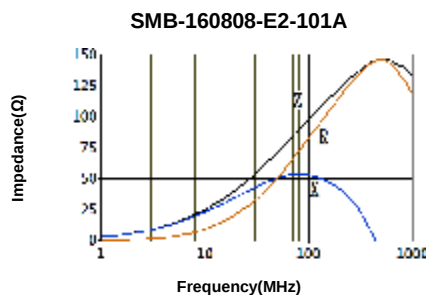
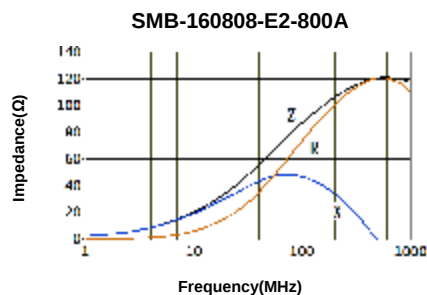
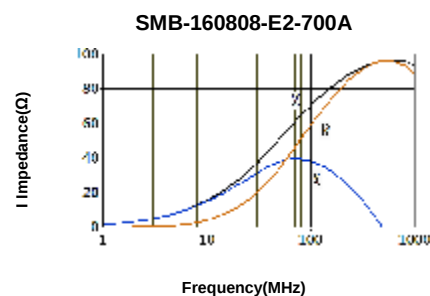
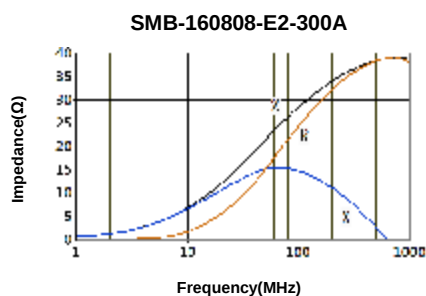
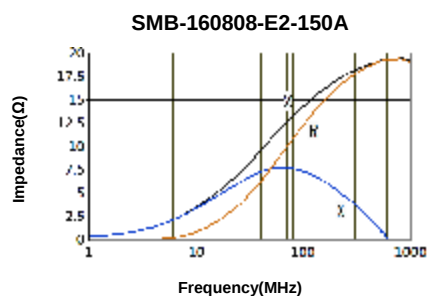




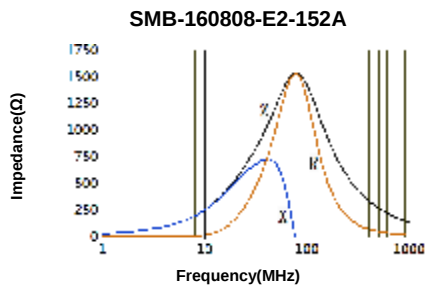
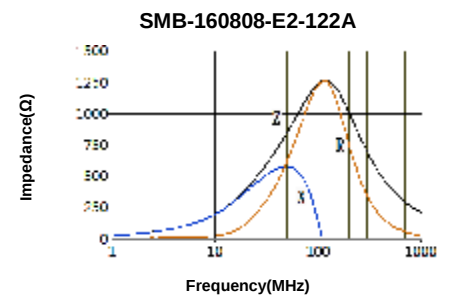
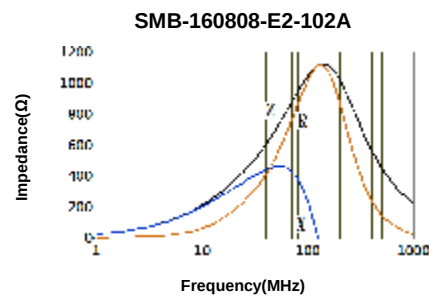
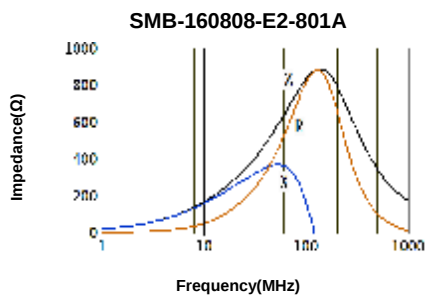
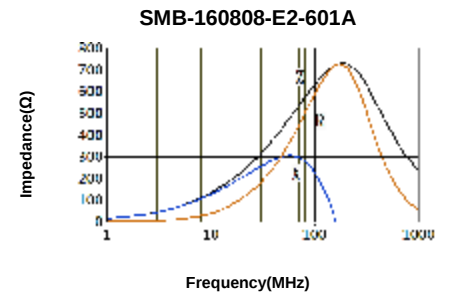
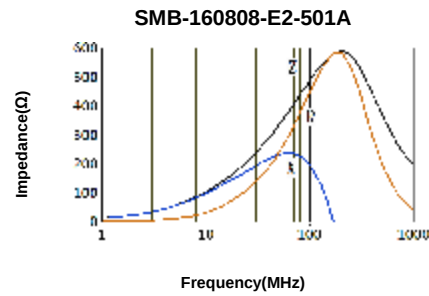
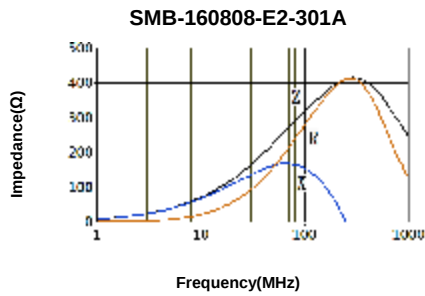
【SMB-160808 A type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-150A	15 $\pm$ 25%	0.08	500
SMB-160808-E2-300A	30 $\pm$ 25%	0.10	400
SMB-160808-E2-700A	70 $\pm$ 25%	0.15	400
SMB-160808-E2-800A	80 $\pm$ 25%	0.15	400
SMB-160808-E2-101A	100 $\pm$ 25%	0.20	400
SMB-160808-E2-121A	120 $\pm$ 25%	0.25	400
SMB-160808-E2-151A	150 $\pm$ 25%	0.25	300
SMB-160808-E2-181A	180 $\pm$ 25%	0.30	300
SMB-160808-E2-221A	220 $\pm$ 25%	0.30	300
SMB-160808-E2-301A	300 $\pm$ 25%	0.40	300
SMB-160808-E2-501A	500 $\pm$ 25%	0.50	300
SMB-160808-E2-601A	600 $\pm$ 25%	0.50	300
SMB-160808-E2-801A	800 $\pm$ 25%	0.60	300
SMB-160808-E2-102A	1000 $\pm$ 25%	0.60	300
SMB-160808-E2-122A	1200 $\pm$ 25%	0.60	300
SMB-160808-E2-152A	1500 $\pm$ 25%	0.60	300

Typical electrical curves :



Typical electrical curves :

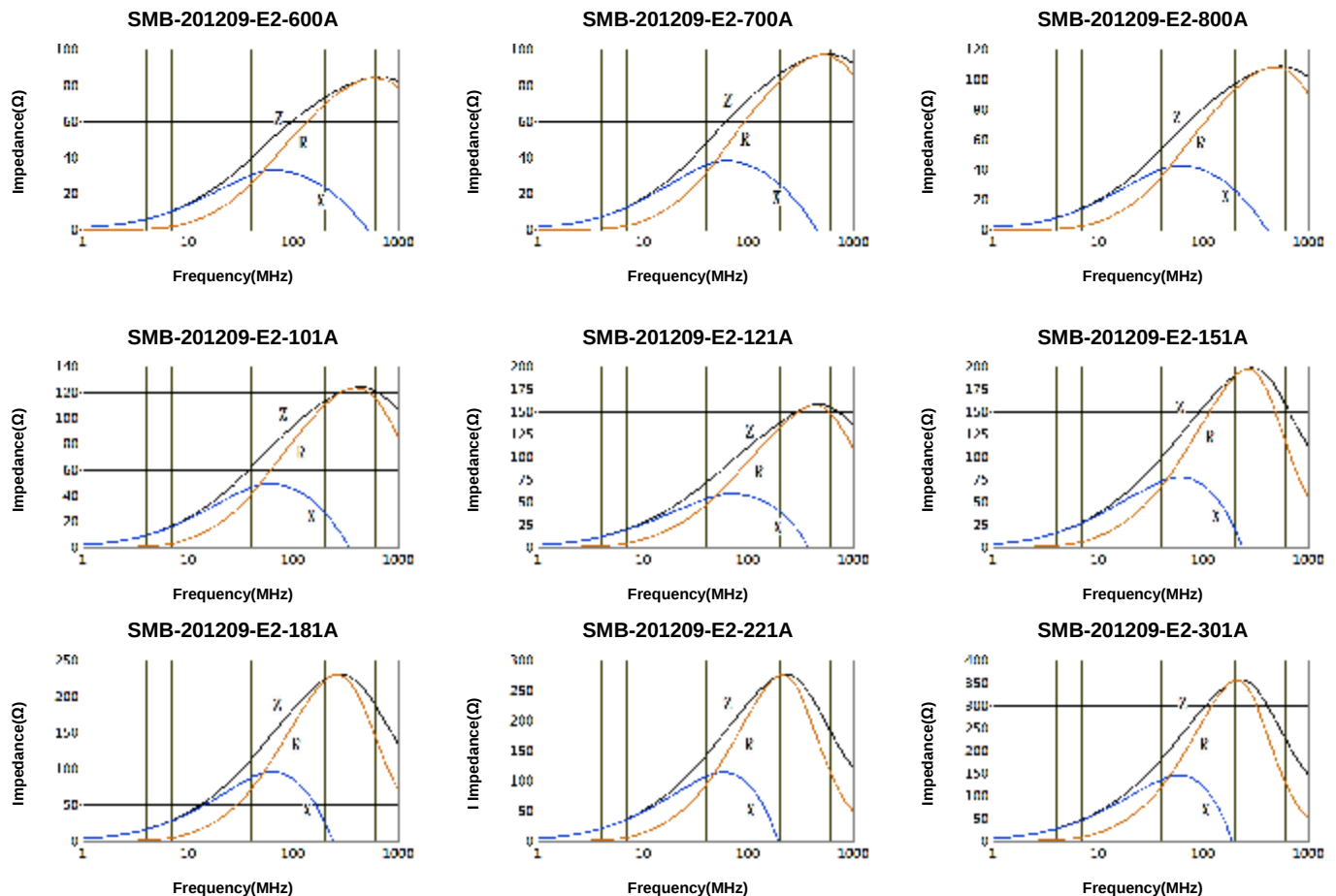




【SMB-201209 A type】

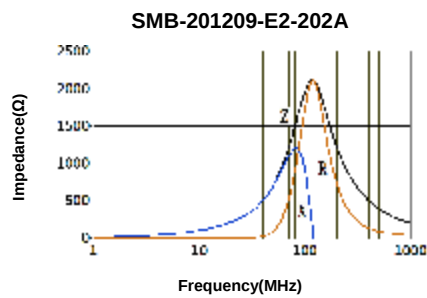
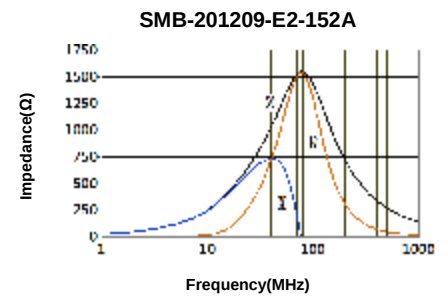
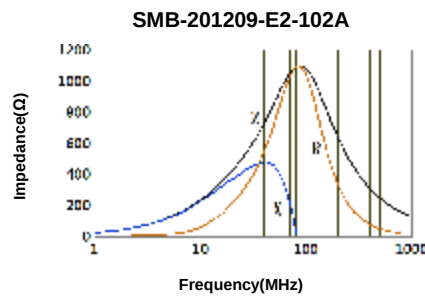
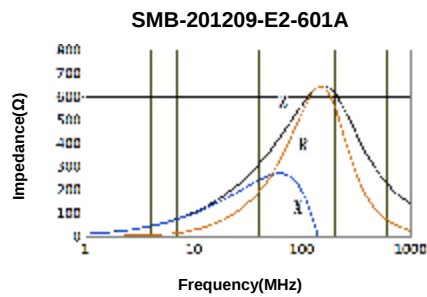
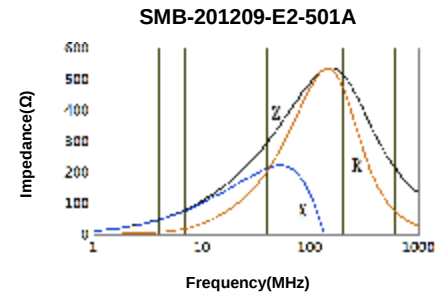
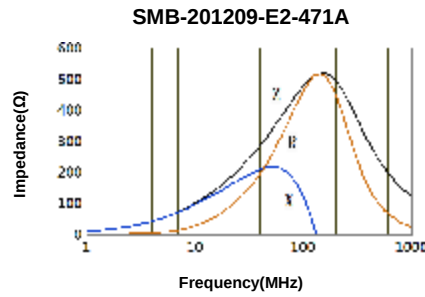
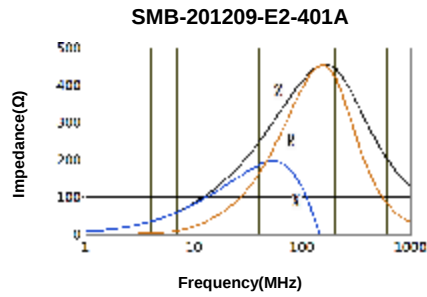
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-600A	60 $\pm$ 25%	0.15	500
SMB-201209-E2-700A	70 $\pm$ 25%	0.15	500
SMB-201209-E2-800A	80 $\pm$ 25%	0.15	500
SMB-201209-E2-101A	100 $\pm$ 25%	0.25	300
SMB-201209-E2-121A	120 $\pm$ 25%	0.25	300
SMB-201209-E2-151A	150 $\pm$ 25%	0.25	300
SMB-201209-E2-181A	180 $\pm$ 25%	0.30	300
SMB-201209-E2-221A	220 $\pm$ 25%	0.30	300
SMB-201209-E2-301A	300 $\pm$ 25%	0.30	300
SMB-201209-E2-401A	400 $\pm$ 25%	0.30	300
SMB-201209-E2-471A	470 $\pm$ 25%	0.40	300
SMB-201209-E2-501A	500 $\pm$ 25%	0.40	300
SMB-201209-E2-601A	600 $\pm$ 25%	0.40	300
SMB-201209-E2-681A	680 $\pm$ 25%	0.40	300
SMB-201209-E2-102A	1000 $\pm$ 25%	0.50	200
SMB-201209-E2-122A	1200 $\pm$ 25%	0.60	200
SMB-201209-E2-152A	1500 $\pm$ 25%	0.60	200
SMB-201209-E2-202A	2000 $\pm$ 25%	0.80	100

Typical electrical curves :





Typical electrical curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

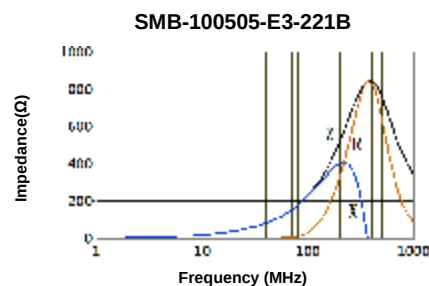
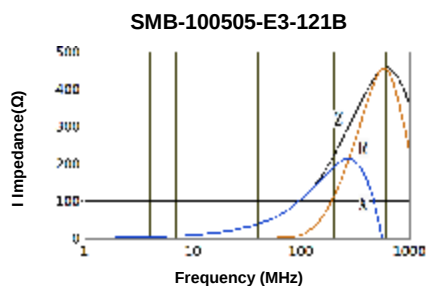
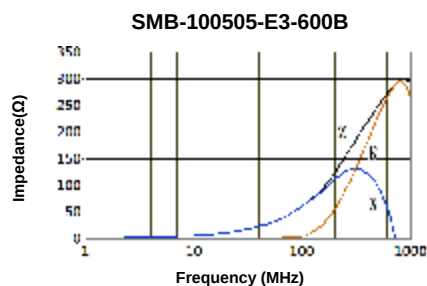


I SMB- B Series (High Frequency Applications)

【SMB-100505 B type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-100505-E3-600B	60 $\pm$ 25%	0.30	400
SMB-100505-E3-121B	120 $\pm$ 25%	0.40	350
SMB-100505-E3-221B	220 $\pm$ 25%	0.60	200

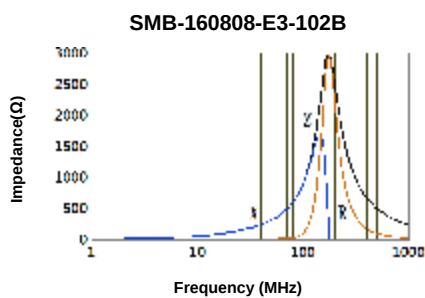
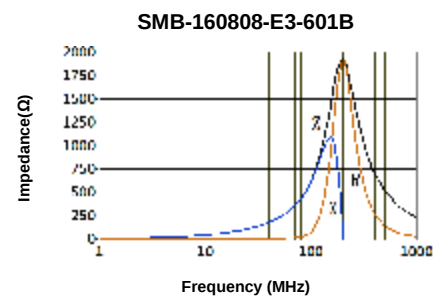
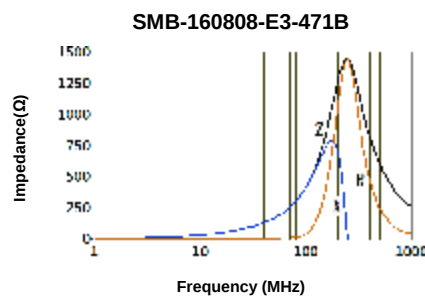
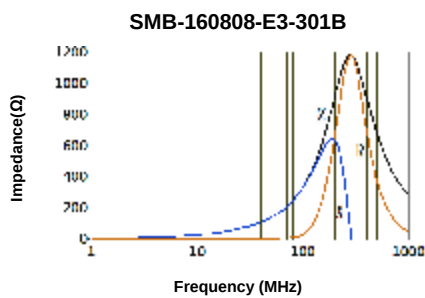
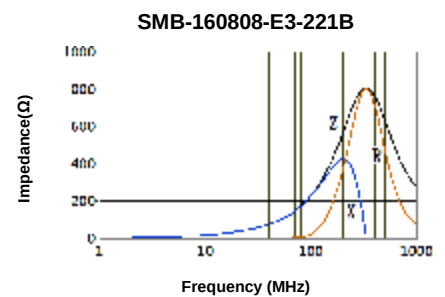
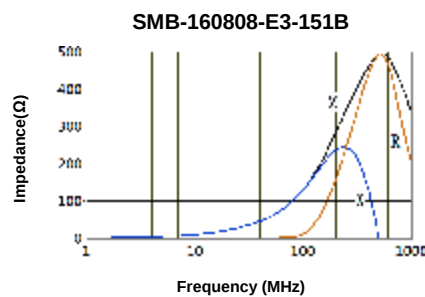
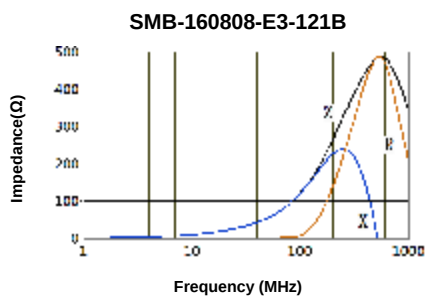
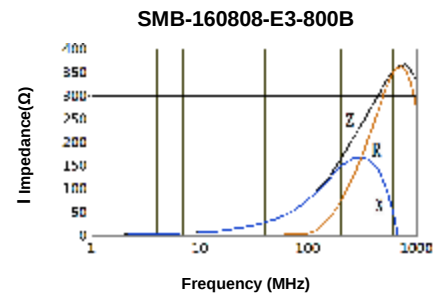
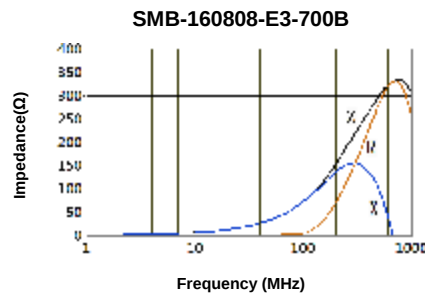
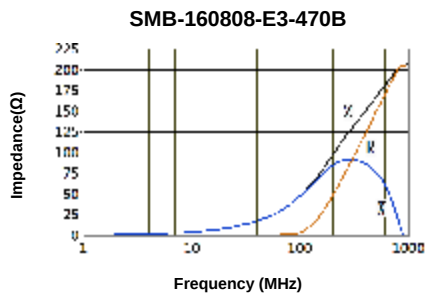
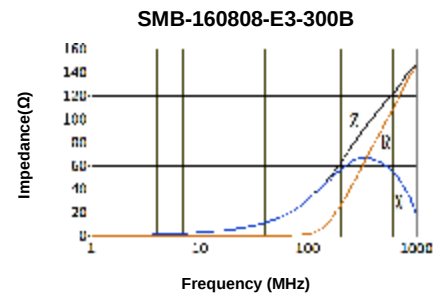
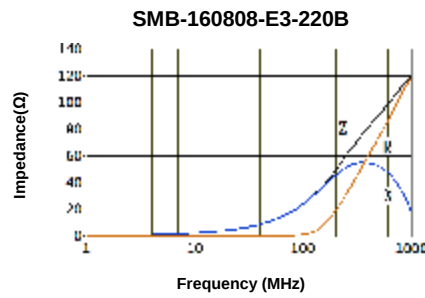
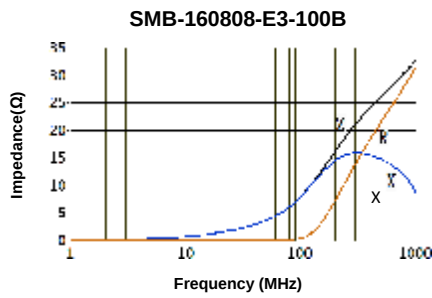
Typical performance curves :



【SMB-160808 B type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E3-100B	10 $\pm$ 25%	0.07	500
SMB-160808-E3-220B	22 $\pm$ 25%	0.20	500
SMB-160808-E3-300B	30 $\pm$ 25%	0.20	500
SMB-160808-E3-470B	47 $\pm$ 25%	0.20	500
SMB-160808-E3-700B	70 $\pm$ 25%	0.25	500
SMB-160808-E3-800B	80 $\pm$ 25%	0.25	500
SMB-160808-E3-121B	120 $\pm$ 25%	0.30	400
SMB-160808-E3-151B	150 $\pm$ 25%	0.30	400
SMB-160808-E3-221B	220 $\pm$ 25%	0.35	400
SMB-160808-E3-301B	300 $\pm$ 25%	0.40	400
SMB-160808-E3-471B	470 $\pm$ 25%	0.50	200
SMB-160808-E3-601B	600 $\pm$ 25%	0.50	200
SMB-160808-E3-102B	1200 $\pm$ 25%	0.60	200

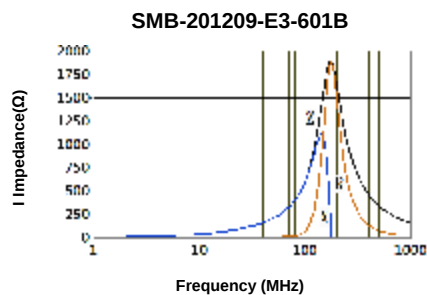
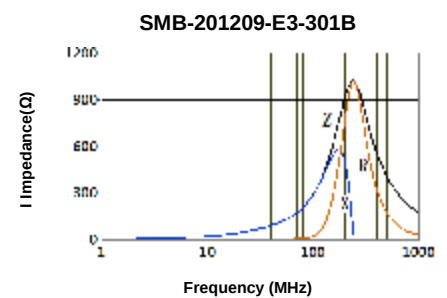
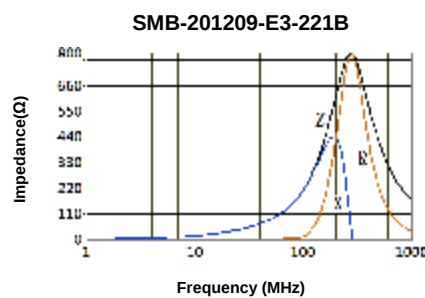
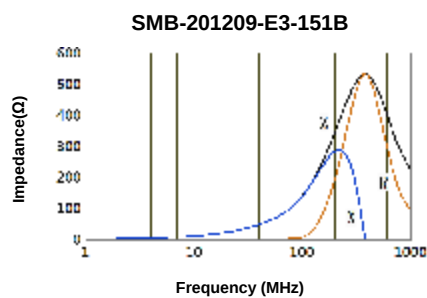
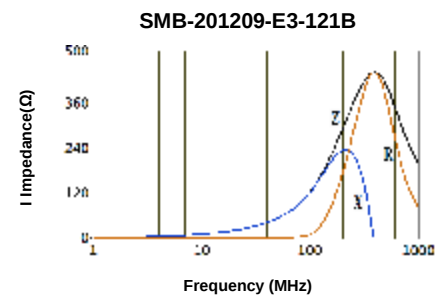
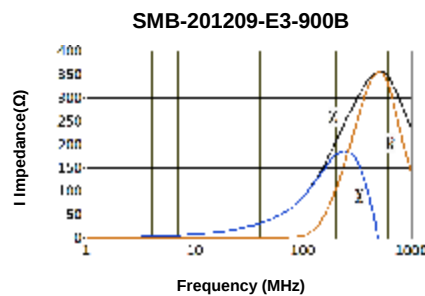
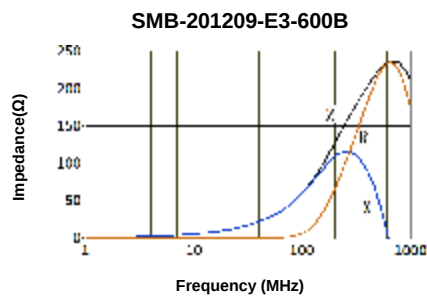
Typical performance curves :



【SMB-201209 B type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E3-600B	60 $\pm$ 25%	0.15	500
SMB-201209-E3-900B	90 $\pm$ 25%	0.15	500
SMB-201209-E3-121B	120 $\pm$ 25%	0.20	500
SMB-201209-E3-151B	150 $\pm$ 25%	0.20	500
SMB-201209-E3-221B	220 $\pm$ 25%	0.30	500
SMB-201209-E3-301B	300 $\pm$ 25%	0.30	500
SMB-201209-E3-601B	600 $\pm$ 25%	0.35	500

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

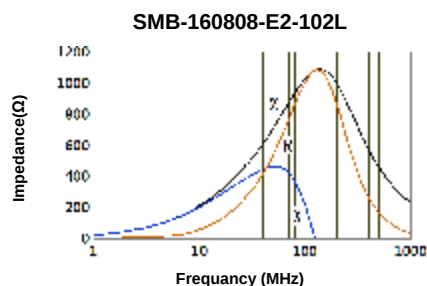
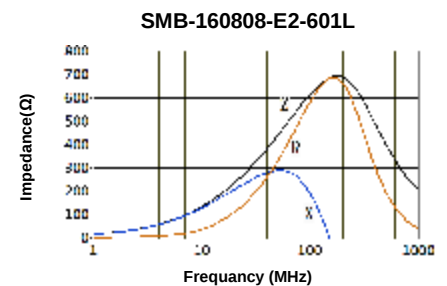
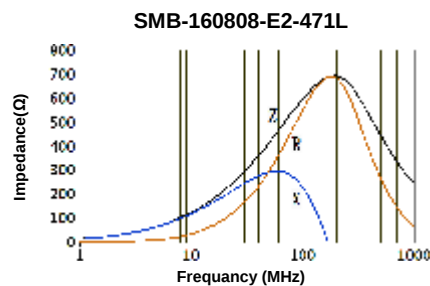
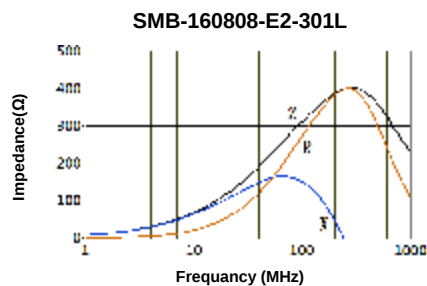
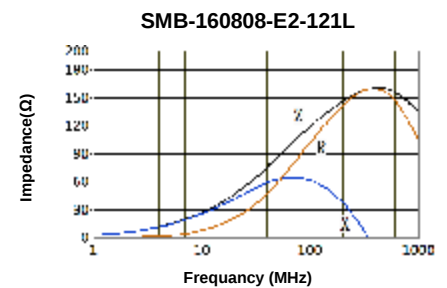
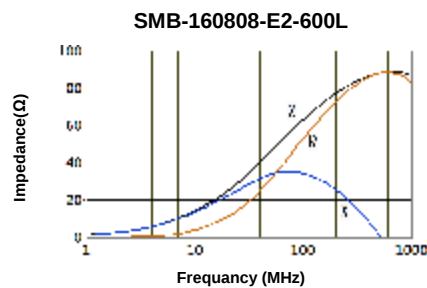
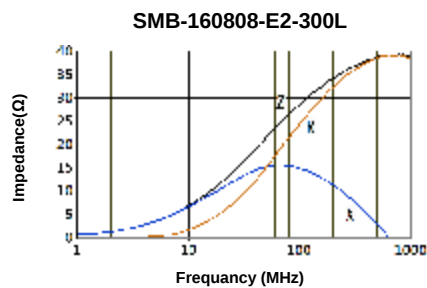


I SMB- L series (Medium Current Application)

【SMB-160808 L type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-300L	30 $\pm$ 25%	0.06	800
SMB-160808-E2-600L	60 $\pm$ 25%	0.06	600
SMB-160808-E2-121L	120 $\pm$ 25%	0.15	600
SMB-160808-E2-301L	300 $\pm$ 25%	0.25	400
SMB-160808-E2-471L	470 $\pm$ 25%	0.30	400
SMB-160808-E2-601L	600 $\pm$ 25%	0.30	400
SMB-160808-E2-102L	1000 $\pm$ 25%	0.45	300

Typical electrical curves :

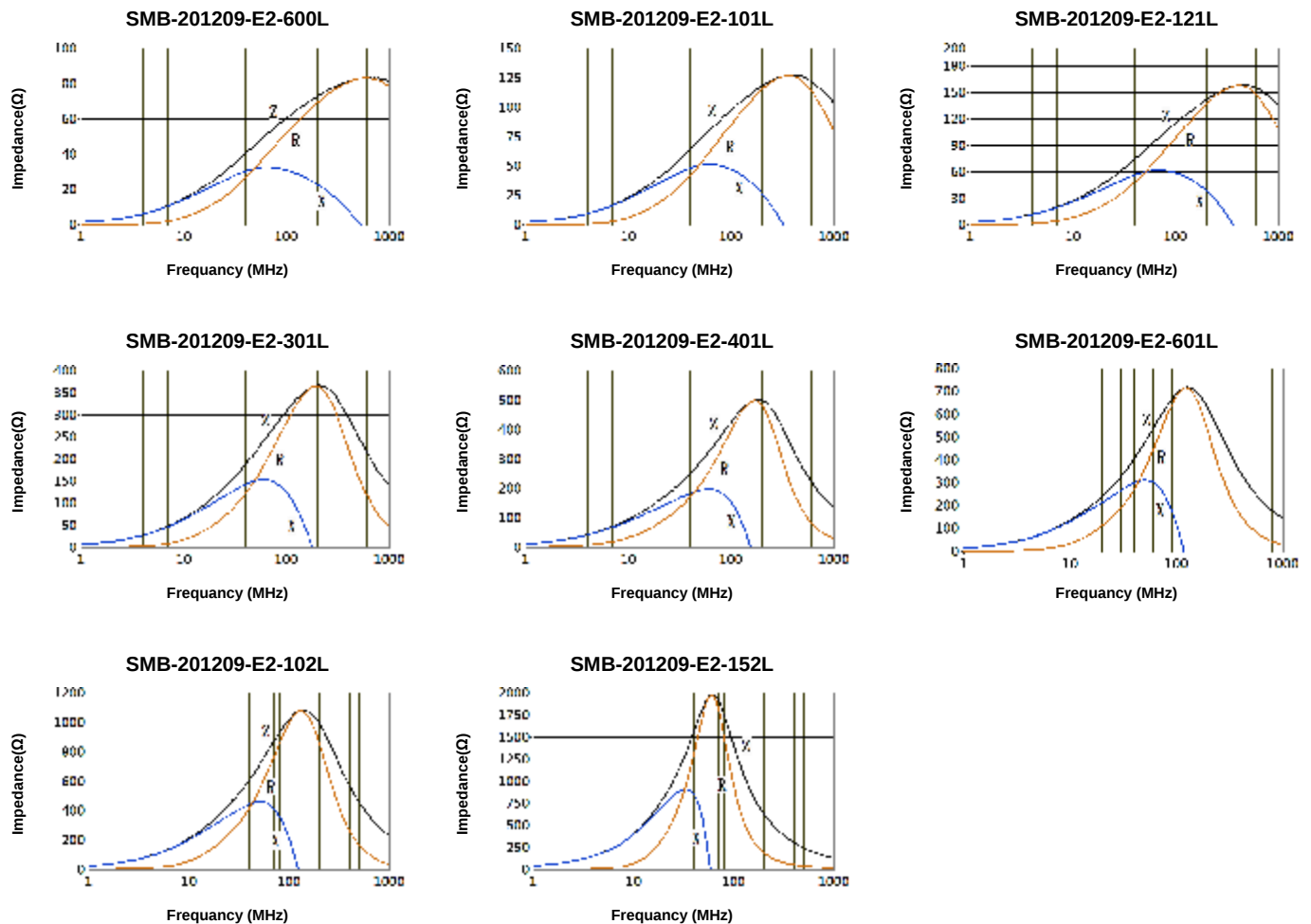




【SMB-201209 L type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-600L	60 $\pm$ 25%	0.10	800
SMB-201209-E2-101L	100 $\pm$ 25%	0.15	600
SMB-201209-E2-121L	120 $\pm$ 25%	0.15	600
SMB-201209-E2-301L	300 $\pm$ 25%	0.18	600
SMB-201209-E2-401L	400 $\pm$ 25%	0.18	600
SMB-201209-E2-601L	600 $\pm$ 25%	0.25	500
SMB-201209-E2-102L	1000 $\pm$ 25%	0.30	400
SMB-201209-E2-152L	1500 $\pm$ 25%	0.40	400

Typical electrical curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

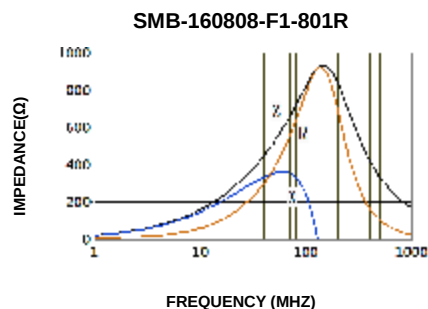
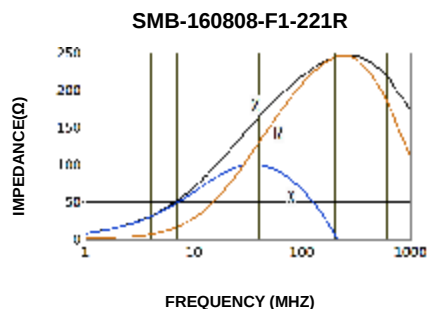
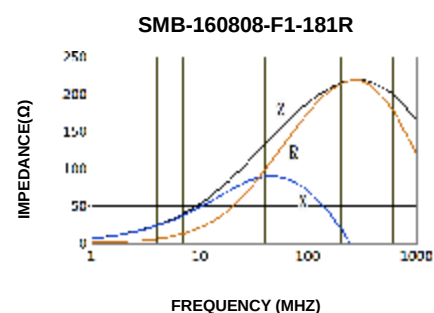
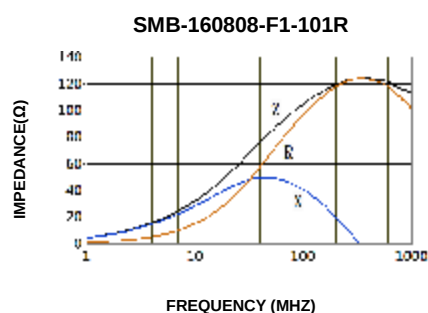
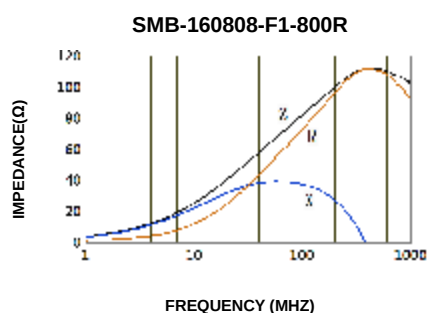


I SMB- R series (Low Speed Application)

【SMB-160808 R type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-F1-800R	80 $\pm$ 25%	0.35	300
SMB-160808-F1-101R	100 $\pm$ 25%	0.35	200
SMB-160808-F1-181R	180 $\pm$ 25%	0.35	200
SMB-160808-F1-221R	220 $\pm$ 25%	0.40	200
SMB-160808-F1-801R	800 $\pm$ 25%	0.70	100

Typical electrical Characteristic Curves :

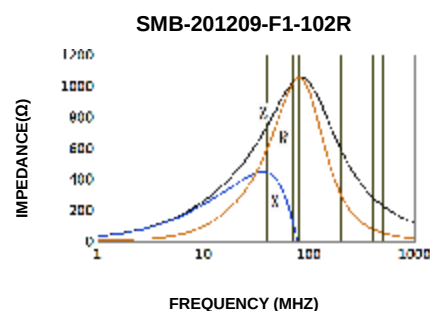
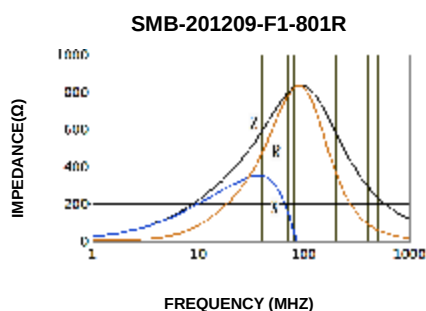
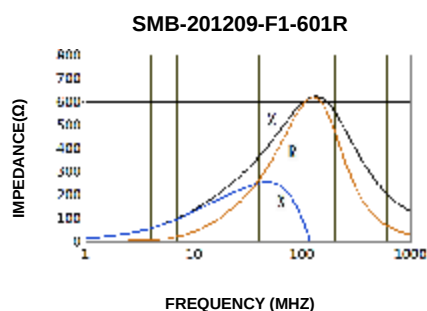
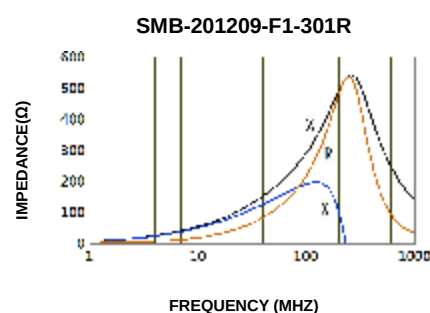
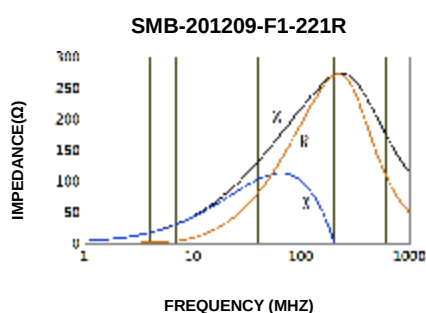
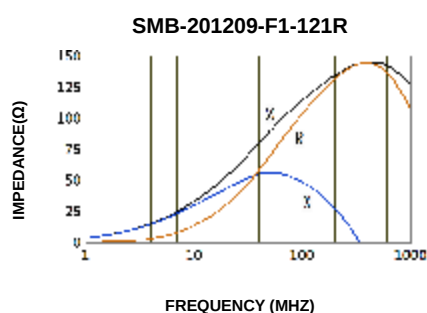




【SMB-160808 R type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-F1-121R	120 $\pm$ 25%	0.25	300
SMB-201209-F1-221R	220 $\pm$ 25%	0.30	300
SMB-201209-F1-301R	300 $\pm$ 25%	0.35	300
SMB-201209-F1-601R	600 $\pm$ 25%	0.45	200
SMB-201209-F1-801R	800 $\pm$ 25%	0.55	150
SMB-201209-F1-102R	1000 $\pm$ 25%	0.65	100

Typical electrical Characteristic Curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

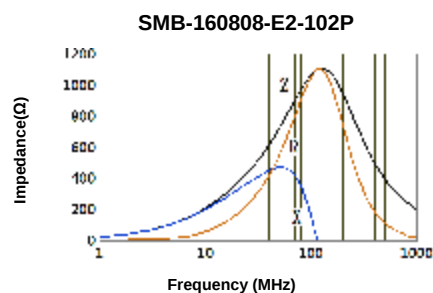
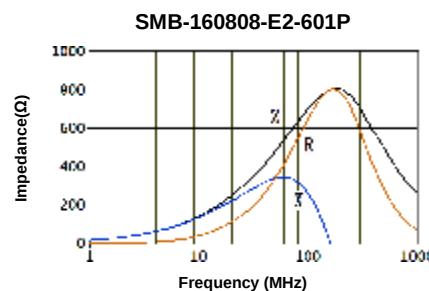
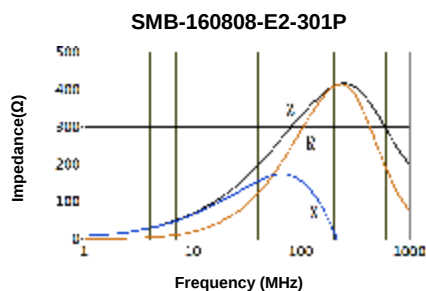
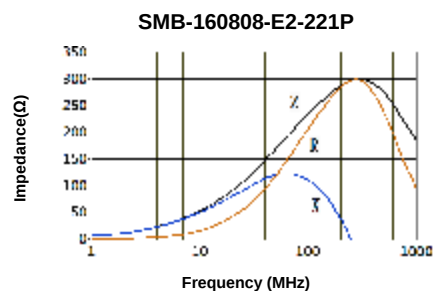
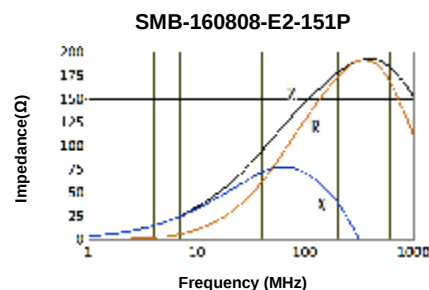
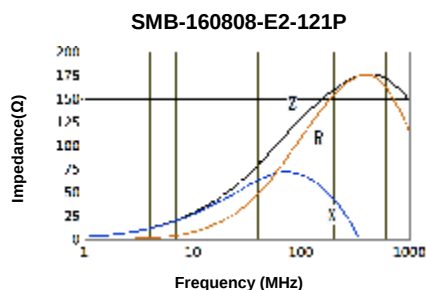
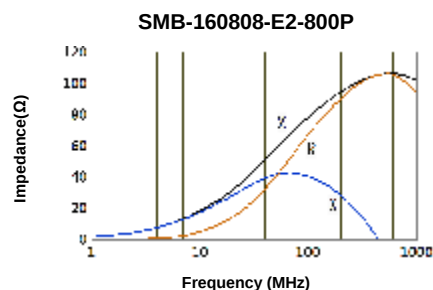
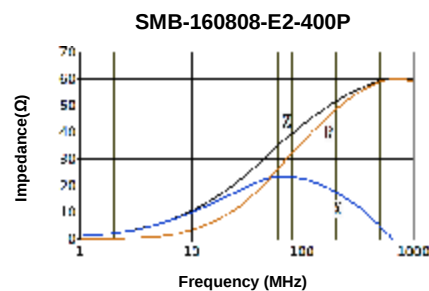
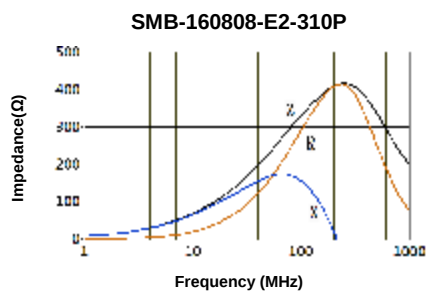
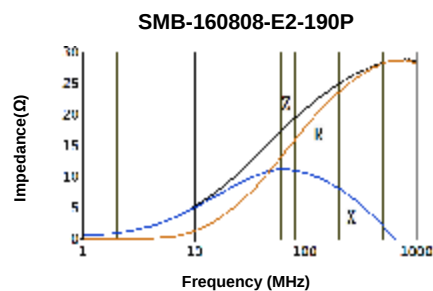


I SMB- P series (High Current Application)

【SMB-160808-E2 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-190P	19 $\pm$ 25%	0.03	3000
SMB-160808-E2-310P	31 $\pm$ 25%	0.03	3000
SMB-160808-E2-400P	40 $\pm$ 25%	0.035	3000
SMB-160808-E2-800P	80 $\pm$ 25%	0.05	2500
SMB-160808-E2-121P	120 $\pm$ 25%	0.08	2500
SMB-160808-E2-151P	150 $\pm$ 25%	0.085	2000
SMB-160808-E2-221P	220 $\pm$ 25%	0.10	2000
SMB-160808-E2-301P	300 $\pm$ 25%	0.12	1500
SMB-160808-E2-601P	600 $\pm$ 25%	0.20	1000
SMB-160808-E2-102P	1000 $\pm$ 25%	0.25	800

Typical electrical curves :

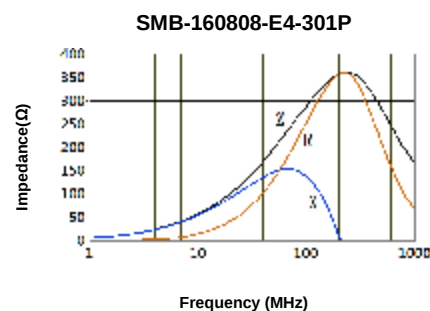
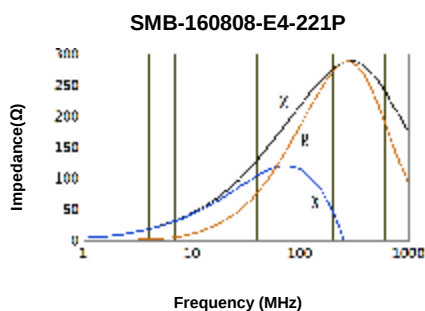
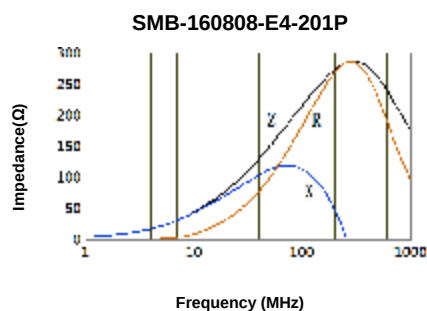
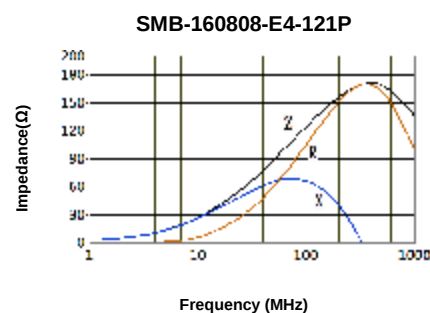
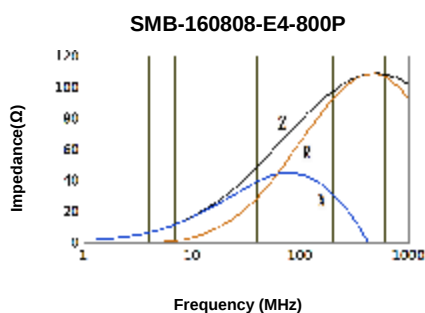
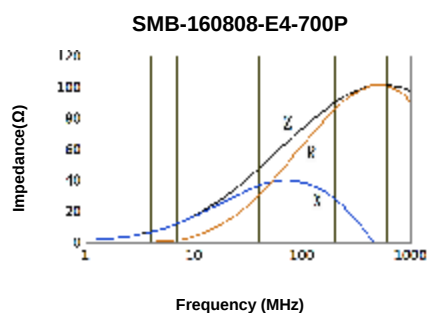
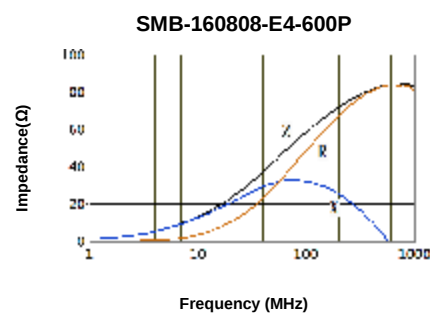
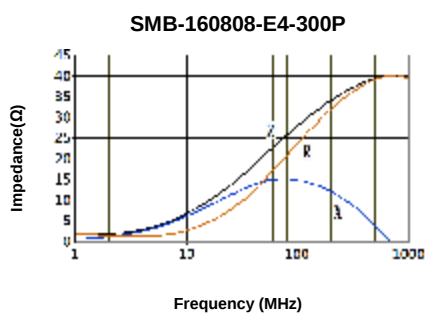
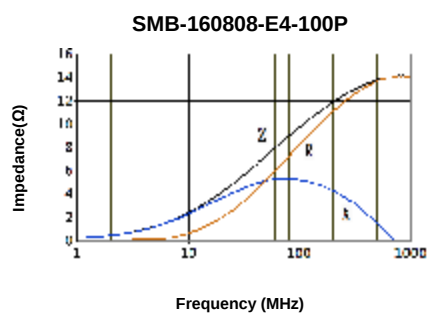




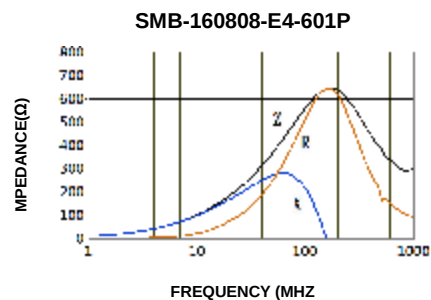
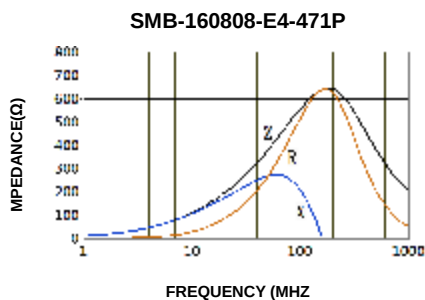
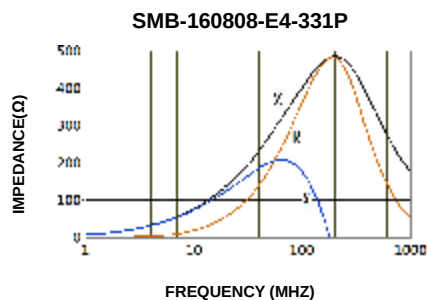
【SMB-160808-E4 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E4-100P	10 $\pm$ 25%	0.01	6000
SMB-160808-E4-300P	30 $\pm$ 25%	0.015	4000
SMB-160808-E4-600P	60 $\pm$ 25%	0.03	3000
SMB-160808-E4-700P	70 $\pm$ 25%	0.04	3000
SMB-160808-E4-800P	80 $\pm$ 25%	0.04	3000
SMB-160808-E4-121P	120 $\pm$ 25%	0.04	3000
SMB-160808-E4-201P	200 $\pm$ 25%	0.05	2500
SMB-160808-E4-221P	220 $\pm$ 25%	0.08	2000
SMB-160808-E4-301P	300 $\pm$ 25%	0.08	2000
SMB-160808-E4-331P	330 $\pm$ 25%	0.08	2000
SMB-160808-E4-471P	470 $\pm$ 25%	0.1	2000
SMB-160808-E4-601P	600 $\pm$ 25%	0.1	2000

Typical electrical curves :



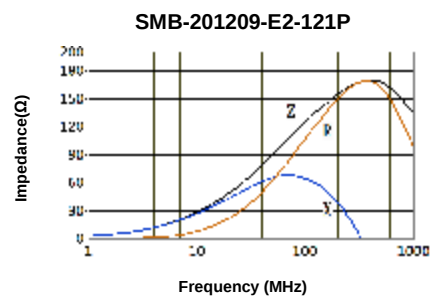
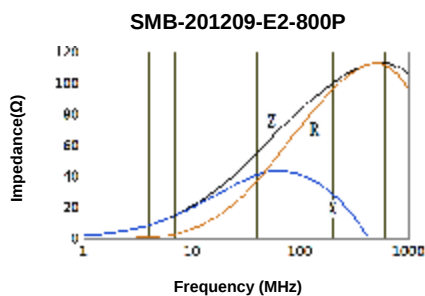
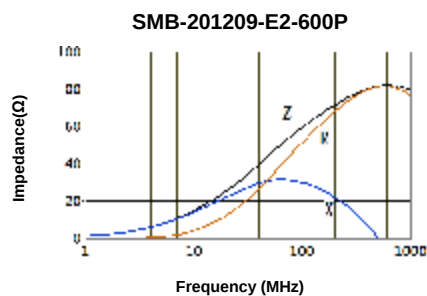
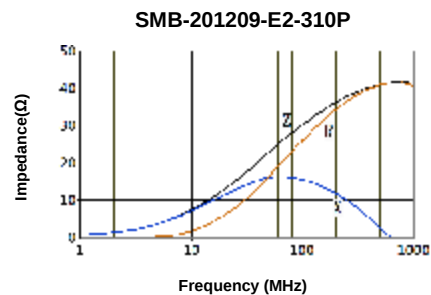
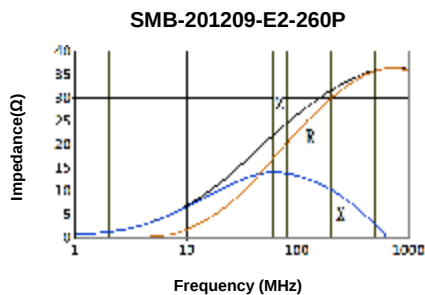
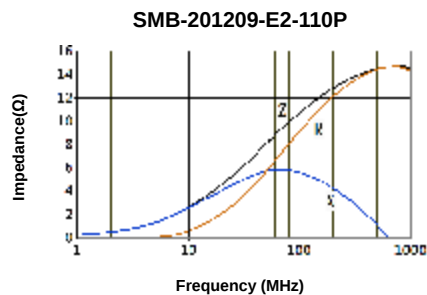
Typical electrical curves :



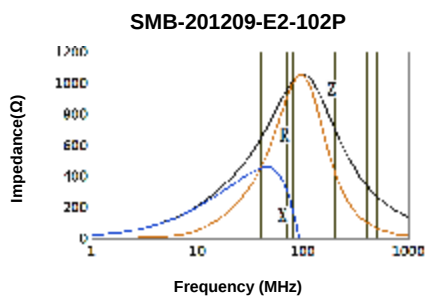
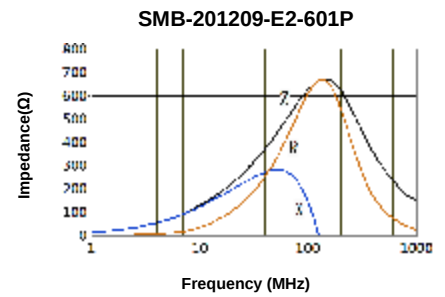
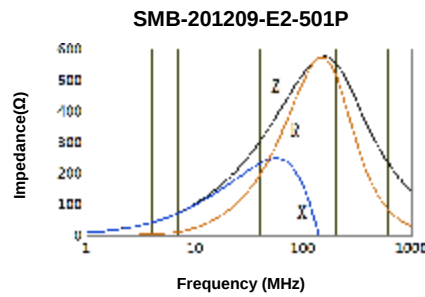
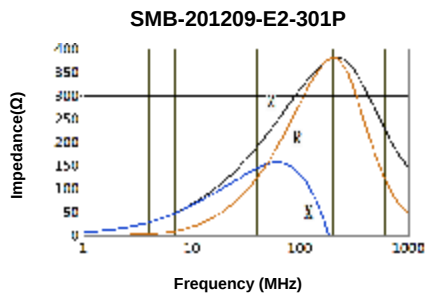
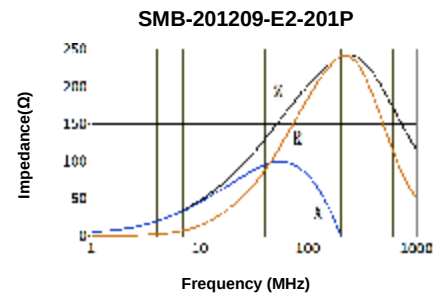
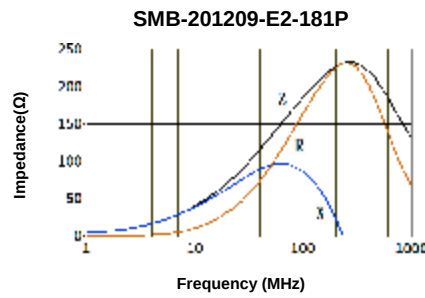
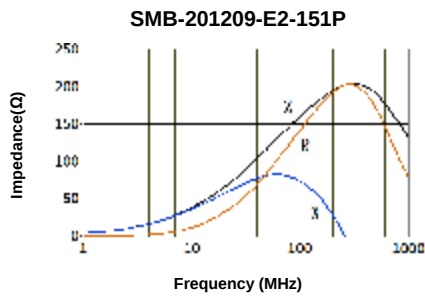
【SMB-201209 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-110P	11±25%	0.01	6000
SMB-201209-E2-260P	26±25%	0.02	4000
SMB-201209-E2-310P	31±25%	0.02	4000
SMB-201209-E2-600P	60±25%	0.03	3000
SMB-201209-E2-800P	80±25%	0.04	3000
SMB-201209-E2-121P	120±25%	0.04	3000
SMB-201209-E2-151P	150±25%	0.05	2500
SMB-201209-E2-181P	180±25%	0.05	2500
SMB-201209-E2-201P	200±25%	0.05	2500
SMB-201209-E2-301P	300±25%	0.08	2000
SMB-201209-E2-501P	500±25%	0.10	2000
SMB-201209-E2-601P	600±25%	0.10	2000
SMB-201209-E2-102P	1000±25%	0.12	1500

Typical electrical curves :



Typical electrical curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

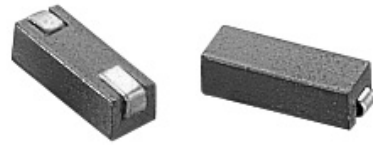


SMB-302540/302585 SERIES

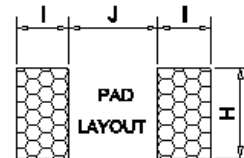
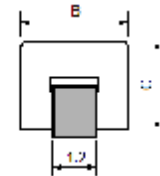
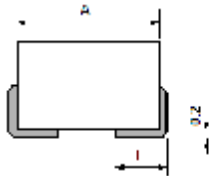
SURFACE MOUNT BEADS

Applications :

- Filtering of power input pins of oscillators or logic
- Logic devices using high speed clocks.
- Preventing oscillations in high frequency amplifiers.



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C ± 0.2	E
302540	4.0	3.0	2.55	1.3
302585	8.5	3.0	2.55	2.0

Item	H	I	J
302540	2.5	1.5	2.0
302585	2.5	2.5	5.0

Features :

- Cost effective EMI filtering for today's densely packed single and double sided surface PCB designs.

Product Identification :

SMB 302540 – H5B

(1) (2) (3)

(1) Type : Surface Mount Beads.

(2) Dimension.

(3) Material : for H5B.

Characteristics :

- Impedance range : 20 to 100Ω @100MHz.
- Frequency range : 1MHz to 300MHz.
- Current rating : 5.0 Amps max.
- Operating Temperature : -20°C to 105°C.

Test equipments :

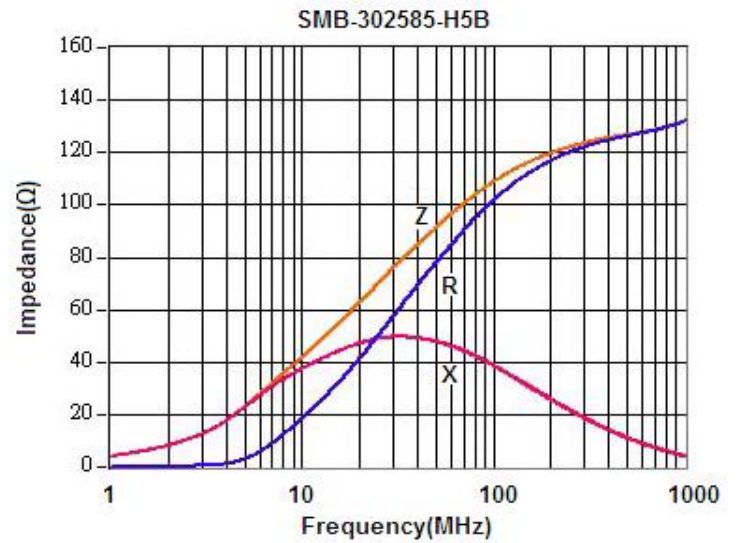
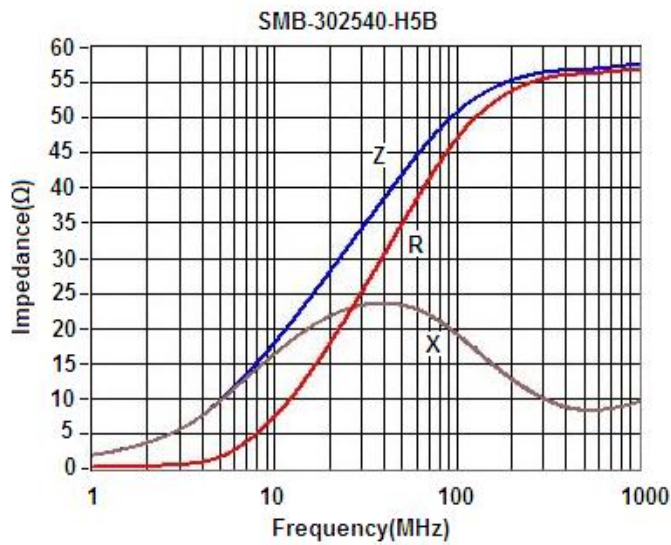
- Impedance: Agilent E4991A RF Impedance analyser
With Agilent 16197A test fixture.
- Electrical specifications at 25°C.



I SMB-302540/302585

Part No.	Impedance (Ω) @25MHz Min.	Impedance (Ω) @100MHz Min.	DCR (m Ω) Max.
SMB-302540-H5B	25	38	0.6
SMB-302585-H5B	50	76	0.9

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



LF SERIES

LINE FILTER

Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Rated voltage: 250VAC.
- Insulation: AC 2000V 1 minute between line & line.
- Insulation Resistance: 100 M Ω Min when DC 500V between line & line.
- Operating temperature : -25°C to 105°C .

Product Identification :

LF V - 102 U - 2A

(1)(2) (3) (4) (5)

(1) Type: Line Filter.

(2) Style: **V**: vertical; **H**: horizontal

U or **T** indicate core type; Others: "**V129**";

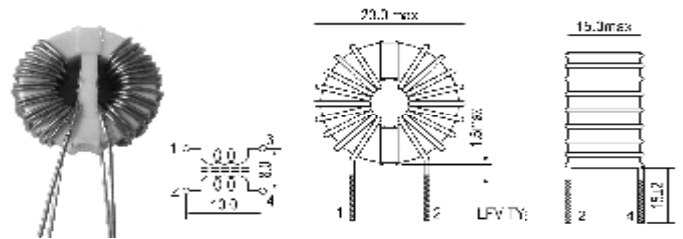
"**LV**"; "**LH**"; "**U9.8**"; "**U10**"; "**U16**"; "**U20**";

(3) Inductance: **102** for 1000uH.

(4) Tolerance: "**U**" means Minimum.

(5) Rate current: Amp.

Shape and Dimensions(unit:mm) :



Feature :

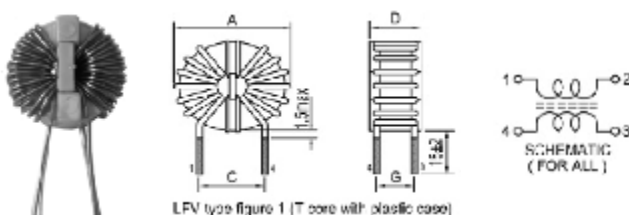
- Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of various electronic equipment.
- High safety and reliability .
- Many configuration available.
- Available as vertically or horizontally mounted.
- Easy PC board mounting.
- Customer's specifications are welcome.

Applications :

- Minimizes noise emissions for conforming to FCC, VCCI, FTZ, CISPR, JTTC and VDE. .
- Applied Equipment: TV, VCR, Switching Power . sources, NC machines, Computer systems, Peripheral units and Measuring instruments

LFV series

Shape and Dimensions(unit:mm) :



3L P/N	A max	B max	C	G	Figure
LFV129	17.5	14.5	5 typ	10 typ	Figure 1
LFV	23.0	15.0	13 typ	12 typ	
LFV2208	30.0	15.0	13 typ	12 typ	
LFV2513	34.0	20.0	20 typ	18 typ	
LFV3113	40.0	20.0	20 typ	18 typ	
LFV3715	45.0	23.0	25 typ	20 typ	

Electrical characteristics:

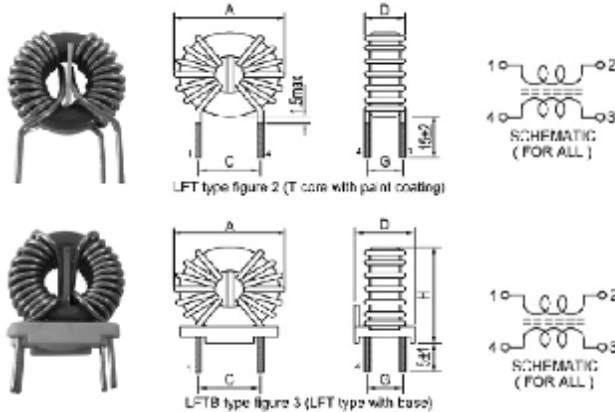
Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFV129-	601U - 1A	0.6	1	60
	601U - 2A	0.6	2	50
	601U - 3A	0.6	3	30
	102U - 1A	1.0	1	70
	102U - 2A	1.0	2	50
	102U - 3A	1.0	3	35
	202U - 1A	2.0	1	100
	202U - 2A	2.0	2	70

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFV129-	302U - 2A	3.0	2	85
	502U - 1A	5.0	1	150
LFV-	102U - 2A	1.0	2	80
	202U - 2A	2.0	2	110
	302U - 2A	3.0	2	150
	502U - 1A	5.0	1	200
	802U - 1A	8.0	1	230
	103U - 1A	10.0	1	260



I LFT/LFTB series

Shape and Dimensions(unit:mm) :



Electrical characteristics:

3L P/N	A max	B max	C	G	Figure
LFT1206	16.0	10.0	10 typ	8 typ	Figure 2
LFT1608	20.0	12.0	13 typ	10 typ	
LFT2208	27.0	12.5	13 typ	10 typ	
LFT2513	30.0	18.0	20 typ	15 typ	
LFT3113	37.0	19.0	20 typ	15 typ	
LFT3715	43.0	21.0	25 typ	18 typ	Figure 3
LFTB1206	17.5	14.5	10.0±1	8.0±1	
LFTB1608	23.0	15.0	15.0±1	10.0±1	
LFTB2208	30.0	16.0	20.3±1	10.2±1	
LFTB2513	34.0	21.0	23.0±1	15.2±1	
LFTB3113	40.0	21.0	23.0±1	15.2±1	
IFTB3715	45.0	24.0	30.5±1	17.8±1	

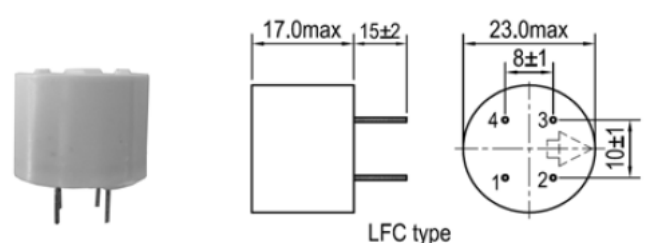
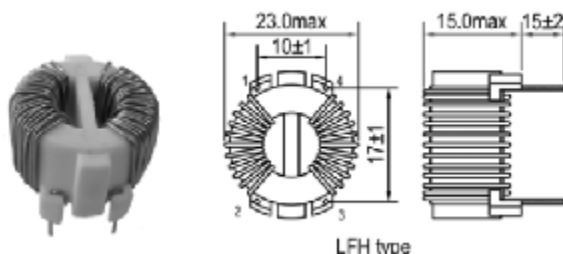
Electrical characteristics:

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFT2208-	601U - 8A	0.60	8	9.1
	102U - 6A	1.00	6	15
	202U - 6A	2.0	6	25
	302U - 5A	3.0	5	35
	502U - 4A	5.0	4	45
	103U - 3A	10.0	3	85
LFT2513-	201U - 15A	0.2	15	5
	601U - 8A	0.6	8	15
	102U - 5A	1.0	5	25
	152U - 5A	1.5	3	30
	302U - 5A	3.0	5	35
	502U - 3A	5.0	3	70

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFT3113-	601U - 15A	0.6	15	7
	102U - 10A	1.0	10	20
	302U - 6A	3.0	6	90
	502U - 5A	5.0	5	100
	103U - 3A	10	3	180
LFT3715-	102U - 15A	1.0	15	8
	332U - 15A	3.3	15	10
	502U - 15A	5.0	15	15
	103U - 10A	10	10	28
	153U - 10A	15	10	33

I LFH/LFC series

Shape and Dimensions(unit:mm) :



Electrical characteristics :

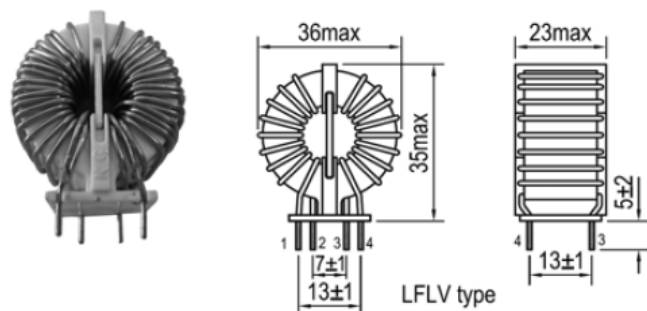
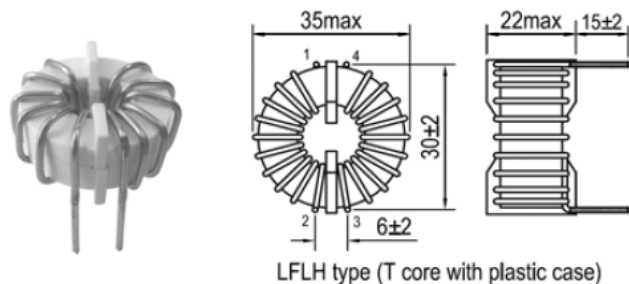
Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFH-	102U- 2A	1.0	2	80
	202U- 2A	2.0	2	110
	302U- 2A	3.0	2	150
	502U- 1A	5.0	1	200
	802U- 1A	8.0	1	230
	103U- 1A	10	1	260

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFC-	301U- 2A	0.3	2	60
	601U- 2A	0.6	2	80
	102U- 2A	1.0	2	100
	152U- 2A	1.5	2	105
	202U- 2A	2.0	2	150
	302U- 2A	3.0	2	180
	552U- 2A	5.5	2	200



I LFLH/LFLV series

Shape and Dimensions(unit:mm) :



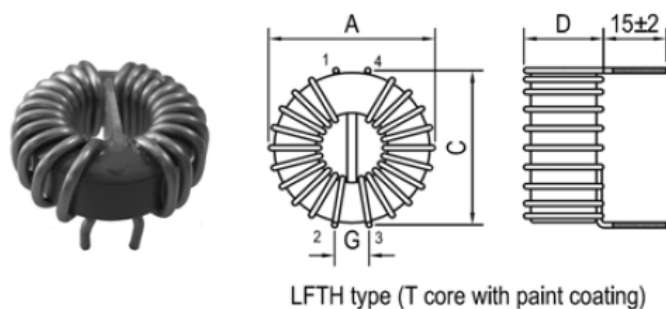
Electrical characteristics :

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFLH-	151U- 12A	0.15	12	8
	301U- 9A	0.3	9	15
	601U- 9A	0.6	9	20
	102U- 3A	1.0	3	50
	302U- 3A	3.0	3	80

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFLV-	152U - 3A	1.5	3	45
	502U - 3A	5.0	3	70
	102U - 5A	1.0	5	25
	302U - 5A	3.0	5	35
	601U - 8A	0.6	8	15
	201U - 15A	0.2	15	5

I LFTH series

Shape and Dimensions(unit:mm) :



3L P/N	A max	B max	C	G
LFTH2208	27.0	13.0	24.0typ	6.0typ
LFTH2508	30.0	13.0	27.0typ	6.0typ

Electrical characteristics:

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFTH2208	601U - 8A	0.6	8	9.1
	102U - 6A	1.0	6	15
	202U - 6A	2.0	6	25
	302U - 5A	3.0	5	35
	502U - 4A	5.0	4	45
	103U - 3A	10	3	85

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFTH2508	151U- 12A	0.15	12	8
	301U- 9A	0.3	9	15
	601U- 9A	0.6	9	20
	102U- 3A	1.0	3	50
	302U- 3A	3.0	3	80

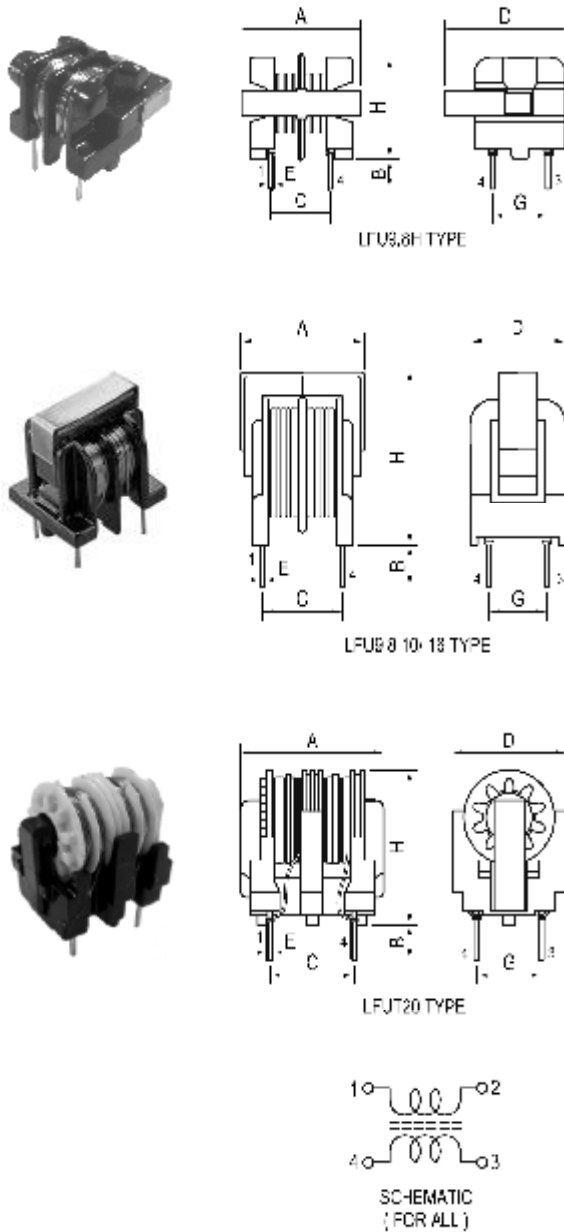
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



I LFU9.8/LFU10/LFU16/LFUT20 series

Shape and Dimensions(unit:mm) :

Electrical characteristics :



3L P/N	A max	B ±1.0	C ±0.5	D max	E ±0.05	G ±0.5	H max
LFU9.8	17.0	4.0	8.0	12.0	0.60	7.0	17.0
LFU9.8H	17.0	4.0	8.0	16.0	0.60	7.0	13.0
LFU10	19.0	4.0	13.0	17.0	0.70	10.0	22.0
LFU16	23.0	4.0	13.0	19.5	0.70	10.0	27.5
LFUT20	22.0	4.0	13.0	17.5	0.80	10.0	23.5

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (Ω) Max.
LFU9.8 LFU9.8H	103U- 0.1A	10	0.1	8.0
	802U- 0.2A	8.0	0.2	6.0
	502U- 0.2A	5.0	0.2	4.5
	502U- 0.3A	5.0	0.3	3.5
	202U- 0.5A	2.0	0.5	1.0
	501U- 1A	0.5	1.0	0.3
LFU10-	103U- 0.3A	10.0	0.3	3.0
	502U- 0.3A	5.0	0.3	2.0
	502U- 0.5A	5.0	0.5	1.5
	402U- 0.7A	4.0	0.7	1.0
	302U- 1A	3.0	1.0	0.5
	202U- 1A	2.0	1.0	0.5
	102U- 1A	1.0	1.0	0.4
	102U- 1.3A	1.0	1.3	0.3
	102U- 1.5A	1.0	1.5	0.2
	601U- 2A	0.6	2.0	0.2
LFU16-	303U- 0.4A	30	0.4	2.8
	203U- 0.4A	20	0.4	2.2
	203U- 0.5A	20	0.5	1.6
	103U- 0.6A	10	0.6	1.2
	802U- 0.8A	8.0	0.8	0.8
	602U- 0.8A	6.0	0.8	0.7
	602U- 1A	6.0	1.0	0.5
	402U- 1A	4.0	1.0	0.4
	352U- 1.2A	3.5	1.2	0.3
	252U- 1.2A	2.5	1.2	0.25
	152U- 1.5A	1.5	1.5	0.15
LFUT20-	333U- 0.3A	33	0.3	2.50
	223U- 0.4A	22	0.4	1.70
	153U- 0.5A	15	0.5	1.20
	103U- 0.7A	10	0.7	0.75
	682U- 0.8A	6.8	0.8	0.53
	472U- 1A	4.7	1.0	0.38
	332U- 1A	3.3	1.0	0.31
	222U- 1.2A	2.2	1.2	0.18
	152U- 1.5A	1.5	1.5	0.14
	751U- 1.8A	0.75	1.8	0.12

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



LFD 648075 SERIES

DATA LINE FILTER.

Applications:

- EMI filters.
- Personal computers..
- Communication equipment.

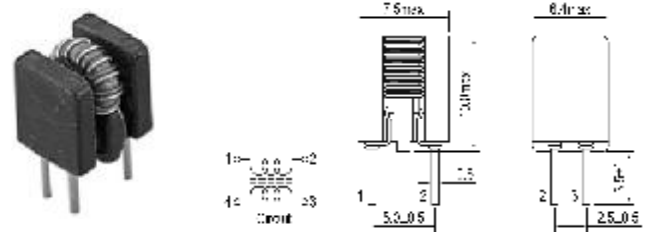
Features:

- Common mode for DC power lines.
- Single layer winding for minimum capacitance.
- Meet UL 94V-0 flammability standard.

Characteristics:

- Rated Current : 500mA Max, obtained when temperature rise to 20°C .
- Rated voltage: DC 50V.
- Operating temperature: -25°C to 85°C .
- Dielectric strength : 50VDC (1minute between lines)
- Insulation resistance: 10MΩ Min(100VDC,between lines).

Shape and Dimensions(unit:mm):



Product Identification:

LFD 648075 - 150 - 401

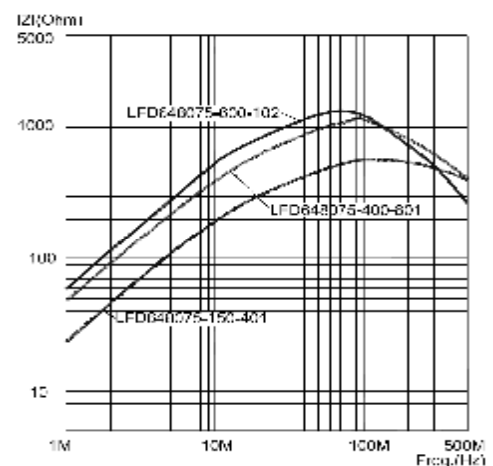
(1) (2) (3) (4)

- (1) Type: Data line filter.
 (2) Style : Base Size.
 (3) Inductance: Example: **150** is 15uH.
 (4) Impedance: **401** is 400 Ω Min.

Test equipments and test setup:

- L: HP4284A Precision LCR meter @1kHz 1V.
- DCR: Milli-Ω meter.
- Z : HP4191A RF impedance analyzer @100MHz.

Impedance & Frequency curve



Part No.	L1=L2 (uH) ±35%	DCR (mΩ) Max.	Z (Ω) Min.
LFD648075-150-401	15	35	400
LFD648075-400-801	40	45	800
LFD648075-600-102	60	50	1000

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



LFD 707010 SERIES

DC LINE FILTERS.

Applications :

- EMI filters.
- Personal computers..
- Communication equipment.

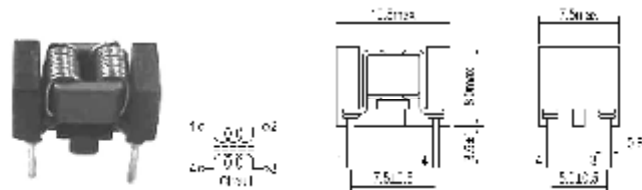
Features :

- Common mode for DC power lines.
- Single layer winding for minimum capacitance.
- meets UL 94V-0 flammability standard.

Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max. $\Delta T=20^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Rated voltage : DC 50V.
- Operating temperature : -25°C to 85°C .
- Dielectric strength : 200VDC(1minute between lines)
- Insulation resistance : 10M Ω Min(100VDC, between lines).

Shape and Dimensions(unit:mm):



Product Identification :

LFD 707010 - 7R7 U - 3A

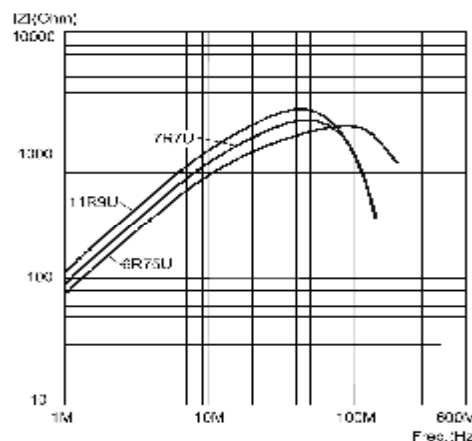
(1) (2) (3) (4) (5)

- (1) Type: DC Line Filters.
- (2) Style : Base Size
- (3) Inductance: **7R7** for 7.7uH.
- (4) Tolerance: "**U**": Minimum.
- (5) Rated Current: **3A**.

Test equipments and test setup :

- L: HP4284A LCR meter @100kHz 1mA.
- DCR: Milli- Ω meter.
- Impedance: HP 4191A RF impedance analyzer.

Impedance & Frequency curve



Part No.	L1=L2	DCR	Rated
	(uH) Min.	(m Ω) Max.	current (A) Max.
LFD707010-6R75U-3A	6.75	20	3.0
LFD707010-7R7U-2.5A	7.7	30	2.5
LFD707010-11R9U-2A	60	50	2.0

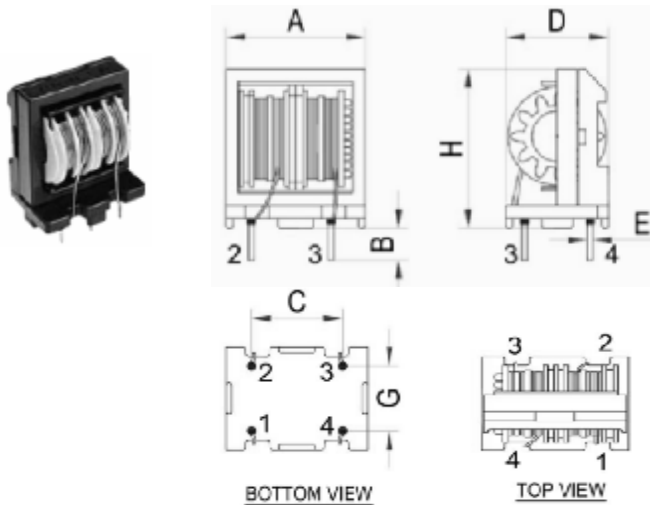
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



ET SERIES

Line filter using ET core building

Shape and Dimensions(unit:mm):



Item	A	B	C	G	D	H	E
	max	±1.0	±0.5	±0.5	max	max	±0.05
ET24	26.0	4.0	13.0	10.0	19.0	31.5	0.80
ET28	30.5	4.0	13.0	10.0	22.0	36.0	0.80
ET35	37.0	4.0	21.0	15.0	26.0	45.0	1.20

Test equipment and test setup:

- HP4284A PRECISION LCR METER
- CHEN HWA 502BC OHM METER
- 7142 AC/DC withstand/insulation tester.

Applications:

- EMC suppressors.
- AC line filter.

Product Identification:

ET 24 - 242 U - 2.5A

(1) (2) (3) (4) (5)

- (1) Core shape
- (2) Dimensional code.
- (3) Inductance : 242 for 2.4mH
- (4) Inductance tolerance: "U" means Minimum.
- (5) Rate current: Amp.

Feature:

- Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of the various electronic equipment.
- High safety and reliability .
- Closed magnetic circuit.
- Easy PC board mounting.
- Customer's specifications are welcome.

Characteristics:

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Rated voltage: 250VAC.
- Insulation: AC 2000V 1 minute between line & line.
- Insulation Resistance: 100 M Ω Min when DC 500V between line & line.
- Operating temperature : -25°C to 105°C .

PART NO.	L @1kHz min. (mH)	DCR Max. (OHM)	Rated Current (A) Max.	PART NO.	L @1kHz min. (mH)	DCR Max. (OHM)	Rated Current (A) Max.
ET24-242U-2.5A	2.4	0.090	2.5	ET28-802U-2A	8	0.18	2.0
ET24-332U-2A	3.3	0.110	2.0	ET28-123U-1.8A	12	0.27	1.8
ET24-392U-1.8A	3.9	0.150	1.8	ET28-203U-1.5A	20	0.41	1.5
ET24-452U-1.5A	4.5	0.190	1.5	ET28-253U-1.2A	25	0.56	1.2
ET24-103U-1.2A	10.0	0.380	1.2	ET28-353U-1A	35	0.78	1.0
ET24-203U-1A	20.0	0.640	1.0	ET35-472U-4A	4.7	0.062	4.0
ET24-253U-0.8A	25.0	0.880	0.8	ET35-562U-3A	5.6	0.077	3.5
ET24-333U-0.6A	33.0	1.200	0.6	ET35-822U-3A	8.2	0.105	3.0
ET24-453U-0.5A	45.0	1.650	0.5	ET35-103U-2.7A	10	0.14	2.7
ET24-683U-0.4A	68.0	2.300	0.4	ET35-123U-2.5A	12	0.17	2.5
ET28-182U-4A	1.8	0.05	4.0	ET35-153U-2.2A	15	0.21	2.2
ET28-332U-3A	3.3	0.088	3.0	ET35-183U-2A	18	0.23	2.0
ET28-472U-2.8A	4.7	0.1	2.8	ET35-223U-1.8A	22	0.29	1.8
ET28-562U-2.5A	5.6	0.13	2.5	ET35-333U-1.5A	33	0.42	1.5

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



DPI1210 SERIES

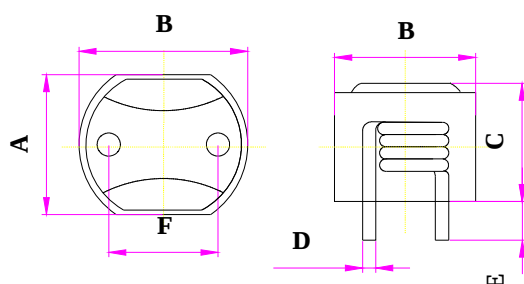
ULTRA HIGH CURRENT DIP POWER INDUCTORS.

Applications :

- Desktop, and server applications.
- DC/DC converters in distributed power systems.
- VGA Card.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	F
DPI1210	10.2±0.5	12.3±0.5	By Each P/N	By Each P/N	3.4±0.5	8.0±0.5

Features :

- No air-space, Magnetic powder is full filled inside.
- Low DCR, lower loss.
- Low profile package with high current designed.
- Magnetic shielded construction for high density board Assembly.
- Good DC Current characteristics in high frequency and high temperature.
- RoHS compliant.

Characteristics :

- Saturation Current (I_{sat}) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current (I_{rms}) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core loss.
- Operating temperature : -25°C to 125°C .

Product Identification :

DPI 1210 - 1R0 M
(1) (2) (3) (4)

- (1) Series : Ultra high current **DPI Power Inductors**.
- (2) Style : **1210** is size.
- (3) Inductance : **1R0** for **1.0uH**.
- (4) Inductance tolerance : **M**: $\pm 20\%$.

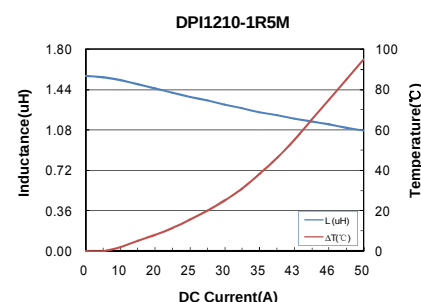
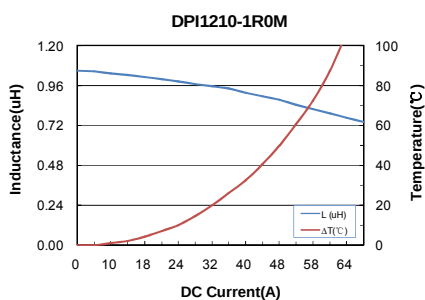
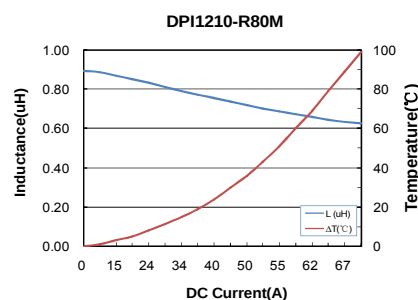
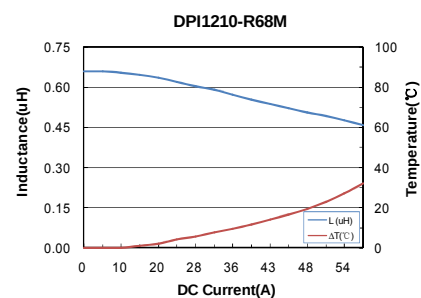
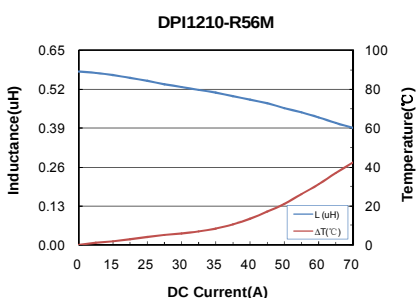
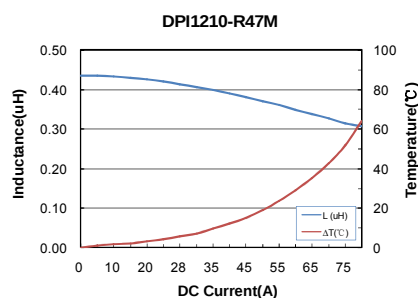
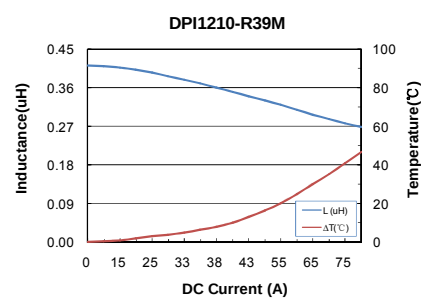
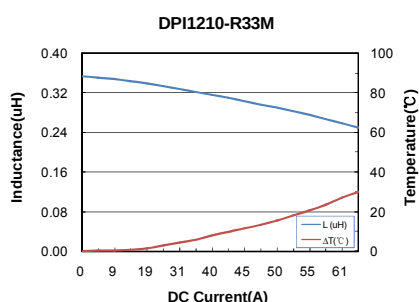
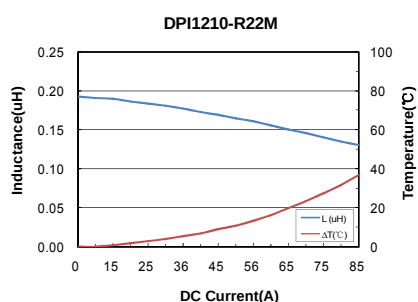
Test equipments :

- L test by Wayne Kerr 3260B LCR meter with Wayne Kerr 3265B Bias Current Source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C .

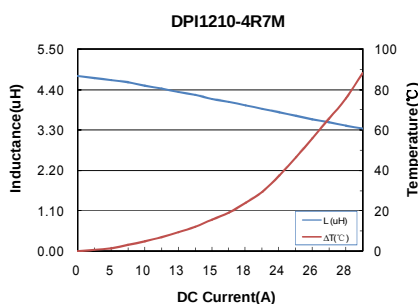
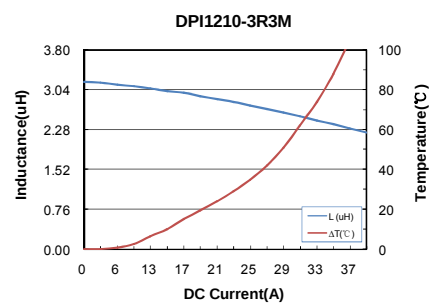
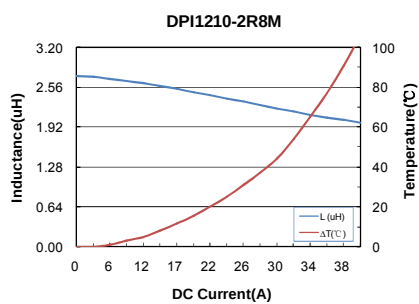
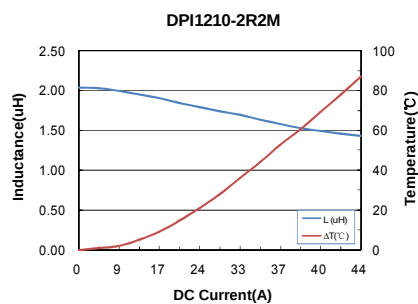
I DPI1210 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	C mm ± 0.25	D mm ± 0.25
		Typical	Maximum				
DPI1210-R22M	0.22	0.42	0.6	56.0	36.0	7.5	1.6
DPI1210-R33M	0.33	0.6	0.8	48.0	31.0	8.6	1.6
DPI1210-R39M	0.39	0.6	0.8	43.0	31.0	8.6	1.6
DPI1210-R47M	0.47	0.8	1.0	40.0	28.0	10.0	1.6
DPI1210-R56M	0.56	0.8	1.0	38.0	28.0	10.0	1.6
DPI1210-R68M	0.68	0.8	1.0	36.0	28.0	10.0	1.6
DPI1210-R80M	0.8	1.25	1.45	34.0	24.0	10.0	1.5
DPI1210-1R0M	1.0	1.5	2.0	32.0	20.0	10.0	1.3
DPI1210-1R5M	1.5	2.6	3.5	30.0	16.0	10.0	1.1
DPI1210-2R2M	2.2	3.1	5.0	24.0	13.6	10.0	1.1
DPI1210-2R8M	2.8	4.3	6.4	20.0	12.3	10.0	1.0
DPI1210-3R3M	3.3	4.8	7.7	16.0	11.2	10.0	1.0
DPI1210-4R7M	4.7	6.6	10.0	15.0	10.0	10.0	0.9

Typical performance curves :



Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

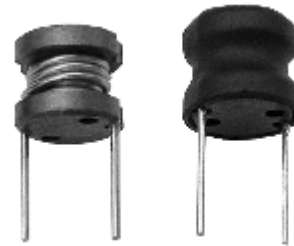


DR SERIES

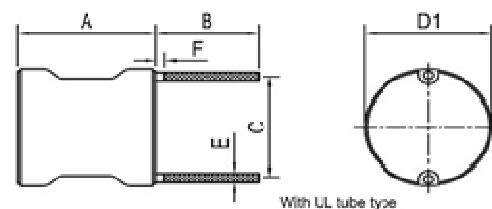
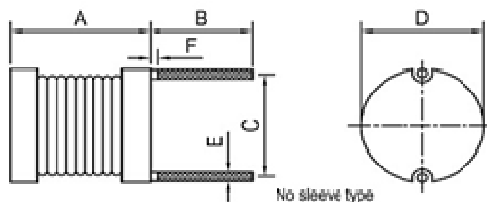
DR CORE WITH SELF-LEAD DESIGN.

Applications :

- TVs and Audio equipment.
- Telecommunication devices.
- Switching Power Supply.
- Other noise filter.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B	C ±1.0	D1Max.	F	D Max(No sleeve type)	E
DR0606	6.5	5.0±1.0	5.0±1.0	7.0	1.5	6.5	(Refer to specification sheet)
DR0707	7.5	5.0±1.0	6.0±1.0	8.0	1.5	7.5	(Refer to specification sheet)
DR0807	7.5	5.0±1.0	6.0±1.0	9.0	1.5	8.5	(Refer to specification sheet)
DR1010	10.5	10.0±2.0	8.0±1.0	11.5	1.5	11.0	(Refer to specification sheet)
DR1213	15.5	10.0±2.0	11.0±1.0	15.5	1.5	15.0	(Refer to specification sheet)

Features :

- Low cost power inductors.
- Low inductance with high current.
- Best for the power supply line applications.
- Covered with UL tube.

Product Identification :

DR 1010 – 4R7 K - UL
 (1) (2) (3) (4) (5)

- (1) Type: DR core with self-lead design.
- (2) Style: Core OD=10mm; L=10mm.
- (3) Inductance: "4R7" for 4.7uH.
- (4) Inductance tolerance : K: ± 10%, M: ± 20%.
- (5) UL: UL tube, black, 125°C ; No code no tube.

Characteristics:

- Saturation Current (Isat): The current when the inductance becomes 20% lower than its initial value. (Ta=20°C).
 (DR1010/DR1213 are 10%)
- Temperature Rise Current (Irms): The current when temperature of coil increase up to max. ΔT=25°C.
 (Ta=20°C).
- Operating temperature ranges: -20 to 80°C.

Test equipments:

- L & Q: HP4285A or HP4284A.
- DCR : Millil-ohm meter.
- SRF : HM9461 L-SRF meter or equivalent.
- Electrical specifications at 25 °C.



I DR0606 / 0707 / 0807 / 1010/ 1213 series

Part No.	L @1KHz uH	Q Min.	Q Test Freq.	SRF Min. (MHz)	DCR (Ω) Max.	Rated current (A)		Size E Ref.
						I sat	I rms	
DR0606-1R0M-UL	1.0	20	7.96MHz	100	0.008	6.0	4.3	0.60
DR0606-1R5M-UL	1.5	20	7.96MHz	70	0.009	5.0	3.7	0.55
DR0606-2R2M-UL	2.2	20	7.96MHz	60	0.013	4.0	3.2	0.55
DR0606-3R3M-UL	3.3	20	7.96MHz	50	0.018	3.2	2.7	0.50
DR0606-4R7M-UL	4.7	20	7.96MHz	40	0.024	2.7	2.4	0.50
DR0707-1R0M-UL	1.0	10	7.96MHz	70	0.006	6.6	5.0	0.7
DR0707-1R5M-UL	1.5	10	7.96MHz	56	0.008	5.4	4.3	0.7
DR0707-2R2M-UL	2.2	10	7.96MHz	45	0.011	4.0	3.7	0.7
DR0707-3R3M-UL	3.3	10	7.96MHz	36	0.018	3.6	2.9	0.55
DR0707-4R7M-UL	4.7	10	7.96MHz	29	0.022	3.1	2.6	0.50
DR0707-6R8M-UL	6.8	10	7.96MHz	24	0.028	2.5	2.3	0.50
DR0707-100K-UL	10	20	2.52MHz	19	0.043	2.1	1.9	0.45
DR0707-150K-UL	15	20	2.52MHz	15	0.056	1.7	1.6	0.45
DR0707-220K-UL	22	20	2.52MHz	12	0.086	1.4	1.3	0.40
DR0807-2R2M-UL	2.2	10	7.96MHz	60	0.011	5.5	4.0	0.70
DR0807-3R3M-UL	3.3	10	7.96MHz	38	0.013	3.8	3.4	0.70
DR0807-4R7M-UL	4.7	10	7.96MHz	30	0.017	3.7	3.0	0.60
DR0807-6R8M-UL	6.8	10	7.96MHz	24	0.023	2.8	2.6	0.55
DR0807-100K-UL	10	20	2.52MHz	19	0.031	2.5	2.2	0.55
DR0807-150K-UL	15	20	2.52MHz	15	0.042	2.0	1.9	0.50
DR0807-220K-UL	22	20	2.52MHz	12	0.070	1.6	1.5	0.45
DR1010-3R3M-UL	3.3	10	7.96MHz	36	0.010	8.8	5.9	0.80
DR1010-4R7M-UL	4.7	10	7.96MHz	28	0.015	7.2	4.8	0.80
DR1010-6R8M-UL	6.8	10	7.96MHz	18	0.016	6.1	4.6	0.80
DR1010-100M-UL	10	20	2.52MHz	16	0.025	5.0	3.7	0.80
DR1010-150K-UL	15	20	2.52MHz	12	0.029	4.2	3.4	0.80
DR1010-220K-UL	22	20	2.52MHz	9.5	0.040	3.4	2.9	0.70
DR1010-330K-UL	33	30	2.52MHz	7.0	0.062	2.8	2.3	0.60
DR1010-470K-UL	47	30	2.52MHz	5.8	0.075	2.3	2.1	0.60
DR1010-680K-UL	68	20	2.52MHz	4.7	0.13	1.9	1.6	0.50
DR1010-101K-UL	100	20	796KHz	3.8	0.16	1.6	1.4	0.50
DR1213-100M-UL	10	20	2.52MHz	19	0.023	8.0	5.1	0.90
DR1213-150K-UL	15	20	2.52MHz	12	0.028	6.5	4.5	0.90
DR1213-220K-UL	22	20	2.52MHz	7.6	0.035	5.5	4.2	0.80
DR1213-330K-UL	33	20	2.52MHz	6.9	0.043	4.5	3.7	0.70
DR1213-470K-UL	47	20	2.52MHz	5.6	0.052	3.6	3.4	0.70
DR1213-680K-UL	68	20	2.52MHz	4.4	0.068	3.1	3.0	0.70
DR1213-101K-UL	100	20	796KHz	3.3	0.097	2.6	2.5	0.60
DR1213-151K-UL	150	20	796KHz	2.6	0.140	2.1	2.1	0.55
DR1213-221K-UL	220	20	796KHz	2.2	0.200	1.7	1.7	0.50
DR1213-331K-UL	330	20	796KHz	1.8	0.300	1.4	1.4	0.45

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

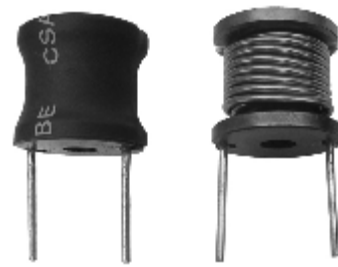


DRH SERIES

BASIC MODEL HIGH CURRENT CHOKE

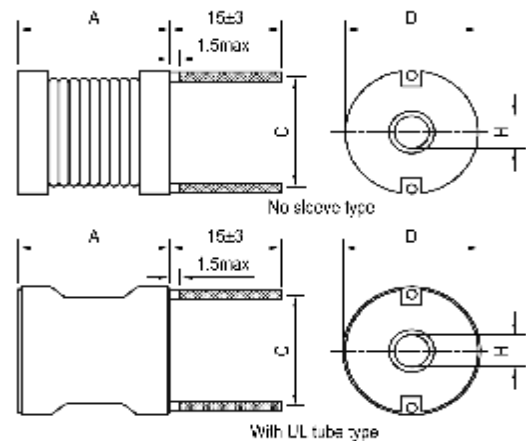
Applications :

- Power supplies and power amplifiers.
- Switching regulators.
- Speaker crossover networks.
- RFI suppression.



Shape and Dimensions (Dimensions are in mm) :

Item	A Max.	C Typ.	D Max.	H Min.
DRH1420	21.5	12.0	16.5	3.0
DRH1820	21.5	15.0	21.0	3.0
DRH2620	21.5	22.0	28.0	5.0
DRH3525	28.0	30.0	40.0	3.6



Features :

- High saturation current .
- Wide range of inductance.
- Ideal for using in switching regulated power supply applications.
- With center hole for mechanical mounting.
- Varnish coated or UL tube.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value. (Ta=20°C)
- Operating temperature : -20°C to 85°C .

Product Identification :

DRH 1820 - 100 K - UL

(1) (2) (3) (4) (5)

- (1) Type : **Basic model high current choke .**
- (2) Style : Core **OD=18 mm L=20 mm .**
- (3) Inductance : Example : **100** for **10** uH
- (4) Inductance tolerance: **K:** ±10%; **M:** ± 20% .
- (5) Sleeve: **UL** tube, black; No code, no sleeve.

Test equipment and test setup :

L : LCR meter @ 1kHz .

DCR : Milli-Ω meter .

- Electrical specifications at 25°C

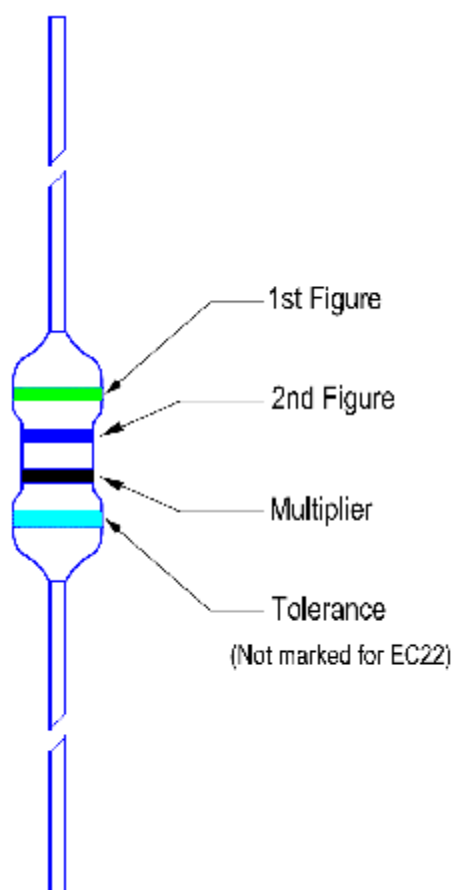
Part No.	L @1kHz (μ H)	DCR (Ω) Max.				I sat (A) Max.			
		1420	1820	2620	3525	1420	1820	2620	3525
1R0M	1.0	0.003	0.003	-	-	28	60	-	-
1R2M	1.2	0.003	0.003	-	-	26	54	-	-
1R5M	1.5	0.004	0.003	-	-	23	48	-	-
1R8M	1.8	0.004	0.003	-	-	21	44	-	-
2R2M	2.2	0.005	0.004	-	-	19	40	-	-
2R7M	2.7	0.005	0.005	-	-	17	36	-	-
3R3M	3.3	0.005	0.005	-	-	15	33	-	-
3R9M	3.9	0.006	0.005	0.003	0.003	14	30	32.0	95
4R7M	4.7	0.007	0.005	0.003	0.003	13	28	29.0	95
5R6M	5.6	0.007	0.006	0.003	0.004	12	25	26.0	79
6R8M	6.8	0.008	0.007	0.004	0.004	11	23	24.0	79
8R2M	8.2	0.009	0.007	0.004	0.004	10	21	22.0	69
100K	10	0.010	0.009	0.006	0.005	9.0	19	20.0	61
120K	12	0.011	0.009	0.008	0.005	8.5	17	18.0	55
150K	15	0.015	0.013	0.009	0.006	7.5	15	16.0	49
180K	18	0.016	0.018	0.01	0.008	6.8	14	15.0	41
220K	22	0.025	0.019	0.011	0.009	6.0	13	13.5	38
270K	27	0.030	0.026	0.012	0.01	5.5	11	12.0	36
330K	33	0.040	0.029	0.017	0.011	5.0	10	11.0	31
390K	39	0.046	0.030	0.022	0.012	4.5	9.5	10.0	28
470K	47	0.062	0.035	0.024	0.018	4.0	8.8	9.2	27
560K	56	0.069	0.039	0.026	0.019	3.7	8.0	8.5	26
680K	68	0.077	0.053	0.029	0.021	3.4	7.2	7.6	25
820K	82	0.083	0.060	0.032	0.023	3.1	6.6	7.0	23
101K	100	0.095	0.080	0.034	0.025	2.8	6.0	6.5	20
121K	120	0.127	0.090	0.046	0.028	2.5	5.5	5.8	18
151K	150	0.181	0.098	0.064	0.040	2.3	4.8	5.2	17
181K	180	0.217	0.110	0.072	0.045	2.1	4.4	4.7	15
221K	220	0.240	0.150	0.080	0.050	1.9	4.0	4.3	13
271K	270	0.300	0.213	0.110	0.056	1.7	3.6	3.9	12
331K	330	0.336	0.305	0.122	0.074	1.5	3.3	3.5	11
391K	390	0.460	0.320	0.169	0.082	1.4	3.0	3.2	10
471K	470	0.636	0.355	0.187	0.114	1.3	2.7	2.9	9.2
561K	560	0.696	0.388	0.205	0.125	1.2	2.5	2.7	8.3
681K	680		0.430	0.256	0.139		2.3	2.4	7.6
821K	820		0.590	0.288	0.154		2.1	2.2	6.8
102K	1000		0.818	0.426	0.216		1.9	2.0	6.2
122K	1200		1.140	0.462	0.232		1.7	1.8	5.7
152K	1500		1.260	0.518	0.324		1.5	1.6	5.1
182K	1800		1.390	0.705	0.360		1.4	1.5	4.6
222K	2200		1.540	1.020	0.494		1.2	1.3	4.2
272K	2700			1.140	0.555			1.2	3.8
332K	3300			1.270	0.773			1.1	3.4
392K	3900			1.670	0.845			1.0	3.1
472K	4700			1.860	1.140			0.9	2.9
562K	5600				1.600				2.5
682K	6800				1.760				2.3
822K	8200				1.950				2.0
103K	10000				2.760				1.8
123K	12000				3.040				1.7
153K	15000				3.390				1.5

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



In **EC TYPE** series color band are marked for identification. These bands indicate inductance value and tolerance. For values below 0.1uH, Gold indicates the decimal point and the next three bands indicate inductance value. There is no tolerance marked for values below **0.1uH**.

In **EC22** series due to limitation in size, only three color bands indicating inductance value is marked without decimal value and tolerance.



Color	Nominal inductance (uH)			
	First figure	Second figure	Multiplier	Tolerance
Black (Bk)	0		1	±20%
Brown (Bn)	1		10	-
Red (R)	2		100	-
Orange (O)	3		1000	-
Yellow (Y)	4		-	-
Green (Gn)	5		-	-
Blue (Be)	6		-	-
Violet (V)	7		-	-
Gray (Gy)	8		-	-
White (W)	9		-	-
Silver (S)	-		0.01	±10%
Gold (Gd)	-		0.10	±5%
Example	Green	Blue		
56uH			Black	Silver
±10%				

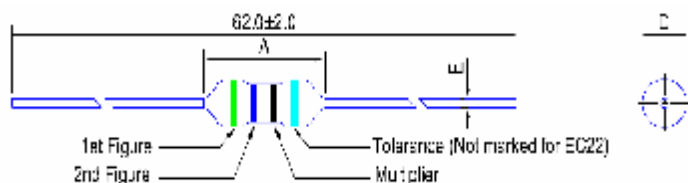
EC SERIES

EPOXY COATED.

Applications :

- Televisions, personal computers.
- Radios, telephones.
- Others various electronic products.

Shape and Dimensions (Dimensions are in mm) :



Item	A Max	D Max	E(±0.05)
EC22	4.00	2.8	0.50
EC23	6.35	2.3	0.50
EC24	7.62	3.0	0.55
EC36	10.5	4.0	0.65



Item	A Max	D Max	E(±0.05)
EC38	12.7	4.2	0.65
EC46	12.0	5.0	0.65
EC0410	15.0	5.0	0.65

Features :

- Conformal coated inductors.
- Treated with epoxy resin coating makes it high reliability.
- EC22/24/36/46 with special magnetic core structure, contribute to high Q and high SRF.
- EC38/0410 for power application.
- EC23/EC24/EC36 for inductance below 1.0uH, use ceramic core.
- Tape and reel packaging for automatic insertion.

Product Identification :

EC 24 – 560 K – T5A

(1) (2) (3) (4) (5)

(1) Type: **Epoxy Coated**.

(2) Style: **According to core size**.

(3) Inductance: Example: **560** for **56** uH.

(4) Tolerance: **“M”**: ±20%; **“K”**: ±10%; **“J”**: ±5%.

(5) Other information:

“T5,T2,T5A,TF1,TF2”represents
the Packing Method No code: Bulk,
“U, F” represents the shape.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value.(Ta=20°C)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=20°C .
(Ta=20°C) .
- Operating temperature ranges: -20 to 80°C .
- Dielectric with standing voltage:250V AC r.m.s.

Test equipments :

- L&Q: HP 4285A with HP 42851A(Freq.>75kHz).
- L&Q: HP4284A(Freq.<75kHz).
- L&Q: HP4291B(Freq.@50MHz)
- DCR: Milli-ohm meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at 25°C .



I EC22 series

Part No.	L (μ H)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code		
							1st	2nd	3rd
EC22-R10M	0.10	50	25.2	250	0.030	700	Bn	Bk	S
EC22-R12M	0.12	55	25.2	230	0.035	660	Bn	R	S
EC22-R15M	0.15	55	25.2	200	0.040	620	Bn	Gn	S
EC22-R18M	0.18	55	25.2	180	0.045	600	Bn	Gy	S
EC22-R22M	0.22	55	25.2	160	0.050	400	R	R	S
EC22-R27M	0.27	50	25.2	150	0.065	380	R	V	S
EC22-R33M	0.33	50	25.2	150	0.075	370	O	O	S
EC22-R39M	0.39	50	25.2	150	0.080	350	O	W	S
EC22-R47M	0.47	60	25.2	150	0.085	330	Y	V	S
EC22-R56M	0.56	60	25.2	150	0.090	320	Gn	Be	S
EC22-R68M	0.68	50	25.2	120	0.10	310	Be	Gy	S
EC22-R82M	0.82	50	25.2	110	0.15	290	Gy	R	S
EC22-1R0K	1.0	50	25.2	110	0.22	270	Bn	Bk	Gd
EC22-1R2K	1.2	40	7.96	100	0.30	260	Bn	R	Gd
EC22-1R5K	1.5	40	7.96	80	0.35	250	Bn	Gn	Gd
EC22-1R8K	1.8	40	7.96	65	0.45	240	Bn	Gy	Gd
EC22-2R2K	2.2	40	7.96	55	0.55	230	R	R	Gd
EC22-2R7K	2.7	40	7.96	50	0.60	220	R	V	Gd
EC22-3R3K	3.3	40	7.96	42	0.65	210	O	O	Gd
EC22-3R9K	3.9	45	7.96	38	0.85	200	O	W	Gd
EC22-4R7K	4.7	45	7.96	34	1.00	190	Y	V	Gd
EC22-5R6K	5.6	45	7.96	32	1.15	180	Gn	Be	Gd
EC22-6R8K	6.8	40	7.96	30	1.20	175	Be	Gy	Gd
EC22-8R2K	8.2	40	7.96	26	1.25	165	Gy	R	Gd
EC22-100K	10	40	7.96	24	1.5	160	Bn	Bk	Bk
EC22-120K	12	50	2.52	22	2.2	150	Bn	R	Bk
EC22-150K	15	50	2.52	20	2.5	145	Bn	Gn	Bk
EC22-180K	18	50	2.52	18	2.8	140	Bn	Gy	Bk
EC22-220K	22	50	2.52	17	3.0	130	R	R	Bk
EC22-270K	27	55	2.52	14	3.5	80	R	V	Bk
EC22-330K	33	55	2.52	14	3.8	76	O	O	Bk
EC22-390K	39	50	2.52	13	4.2	74	O	W	Bk
EC22-470K	47	50	2.52	12	5.8	70	Y	V	Bk
EC22-560K	56	50	2.52	11	6.4	68	Gn	Be	Bk
EC22-680K	68	50	2.52	10	7.2	64	Be	Gy	Bk
EC22-820K	82	50	2.52	9.5	8.5	46	Gy	R	Bk
EC22-101K	100	50	2.52	9.0	11	44	Bn	Bk	Bn
EC22-121K	120	40	0.796	6.5	13	42	Bn	R	Bn
EC22-151K	150	40	0.796	6.0	16	39	Bn	Gn	Bn
EC22-181k	180	40	0.796	5.2	18	37	Bn	Gy	Bn
EC22-221k	220	40	0.796	4.5	20	35	R	R	Bn
EC22-271k	270	30	0.796	3.5	29	28	R	V	Bn
EC22-331K	330	30	0.796	3.0	30	26	O	O	Bn
EC22-391K	390	30	0.796	2.7	32	25	O	W	Bn
EC22-471K	470	30	0.796	2.6	35	24	Y	V	Bn
EC22-561K	560	30	0.796	2.5	40	23	Gn	Be	Bn
EC22-681K	680	30	0.796	2.2	42	22	Be	Gy	Bn
EC22-821K	820	30	0.796	2.1	46	21	Gy	R	Bn
EC22-102K	1000	30	0.796	2.0	52	20	Bn	Bk	R

● EC23 series

Part No.	L (uH)	Q Min.	L / Q TestFreq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC23-R047M	0.047	40	50.0	700	0.08	1200	G	Bk	Y	V
EC23-R056M	0.056	40	50.0	650	0.09	1160	G	Bk	Gn	Be
EC23-R068M	0.068	40	50.0	620	0.10	1120	G	Bk	Be	Gy
EC23-R082M	0.082	40	50.0	580	0.11	1060	G	Bk	Gy	R
EC23-R10K	0.10	30	25.2	540	0.12	980	Bn	Bk	S	S
EC23-R12K	0.12	30	25.2	490	0.15	880	Bn	R	S	S
EC23-R15K	0.15	30	25.2	440	0.18	800	Bn	Gn	S	S
EC23-R18K	0.18	30	25.2	410	0.18	800	Bn	Gy	S	S
EC23-R22J	0.22	30	25.2	360	0.22	720	R	R	S	G
EC23-R27J	0.27	30	25.2	330	0.27	650	R	V	S	G
EC23-R33J	0.33	30	25.2	290	0.33	590	O	O	S	G
EC23-R39J	0.39	30	25.2	270	0.52	470	O	W	S	G
EC23-R47J	0.47	30	25.2	250	0.68	410	Y	V	S	G
EC23-R56J	0.56	30	25.2	230	0.82	370	Gn	Be	S	G
EC23-R68J	0.68	30	25.2	210	1.10	320	Be	Gy	S	G
EC23-R82J	0.82	30	25.2	190	1.40	260	Gy	R	S	G

I EC46 series

Part No.	L @1kHz (mH)	Q Min.	Q Test Freq. KHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC46-122K	1.2	80	252	1.30	9	110	Bn	R	R	S
EC46-152K	1.5	80	252	1.20	10	100	Bn	Gn	R	S
EC46-182K	1.8	80	252	1.20	11	90	Bn	Gy	R	S
EC46-222K	2.2	80	252	1.10	14	80	R	R	R	S
EC46-272K	2.7	80	252	0.85	18	75	R	V	R	S
EC46-332K	3.3	80	252	0.74	22	65	O	O	R	S
EC46-392K	3.9	80	252	0.70	26	60	O	W	R	S
EC46-472K	4.7	80	252	0.66	30	55	Y	V	R	S
EC46-562K	5.6	70	252	0.64	34	50	Gn	Be	R	S
EC46-682K	6.8	70	252	0.58	45	45	Be	Gy	R	S
EC46-822K	8.2	50	252	0.50	60	40	Gy	R	R	S
EC46-103K	10	50	79.6	0.48	70	38	Bn	Bk	O	S
EC46-123K	12	50	79.6	0.46	82	35	Bn	R	O	S
EC46-153K	15	50	79.6	0.40	89	32	Bn	Gn	O	S
EC46-183K	18	40	79.6	0.37	140	28	Bn	Gy	O	S
EC46-223K	22	40	79.6	0.33	170	25	R	R	O	S
EC46-253K	25	40	79.6	0.28	185	24	R	Gn	O	S
EC46-273K	27	40	79.6	0.26	210	23	R	V	O	S
EC46-303K	30	40	79.6	0.25	240	22	O	Bk	O	S
EC46-333K	33	40	79.6	0.24	250	20	O	O	O	S

● EC24 series

Part No.	L (uH)	Q Min.	L.Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC24-R10K	0.10	40	25.2	470	0.08	700	Bn	Bk	S	S
EC24-R12K	0.12	40	25.2	450	0.08	700	Bn	R	S	S
EC24-R15K	0.15	40	25.2	430	0.09	700	Bn	Gn	S	S
EC24-R18K	0.18	40	25.2	410	0.10	700	Bn	Gy	S	S
EC24-R22K	0.22	40	25.2	380	0.12	700	R	R	S	S
EC24-R27K	0.27	40	25.2	360	0.15	680	R	V	S	S
EC24-R33K	0.33	40	25.2	350	0.16	680	O	O	S	S
EC24-R39K	0.39	40	25.2	320	0.18	680	O	W	S	S
EC24-R47K	0.47	40	25.2	300	0.26	650	Y	V	S	S
EC24-R56K	0.56	40	25.2	280	0.38	500	Gn	Be	S	S
EC24-R68K	0.68	40	25.2	250	0.42	500	Be	Gy	S	S
EC24-R82K	0.82	40	25.2	200	0.55	450	Gy	R	S	S
EC24-1R0K	1.0	65	25.2	180	0.12	700	Bn	Bk	Gd	S
EC24-1R2K	1.2	50	7.96	165	0.18	740	Bn	R	Gd	S
EC24-1R5K	1.5	50	7.96	150	0.20	700	Bn	Gn	Gd	S
EC24-1R8K	1.8	70	7.96	125	0.23	655	Bn	Gy	Gd	S
EC24-2R2K	2.2	50	7.96	110	0.25	630	R	R	Gd	S
EC24-2R7K	2.7	60	7.96	95	0.28	595	R	V	Gd	S
EC24-3R3K	3.3	60	7.96	75	0.30	575	O	O	Gd	S
EC24-3R9K	3.9	60	7.96	65	0.32	555	O	W	Gd	S
EC24-4R7K	4.7	50	7.96	50	0.35	530	Y	V	Gd	S
EC24-5R6K	5.6	50	7.96	40	0.40	500	Gn	Be	Gd	S
EC24-6R8K	6.8	50	7.96	30	0.45	470	Be	Gy	Gd	S
EC24-8R2K	8.2	50	7.96	28	0.55	425	Gy	R	Gd	S
EC24-100K	10	50	7.96	22	0.72	370	Bn	Bk	Gd	S
EC24-120K	12	50	2.52	20	0.80	350	Bn	R	Bk	S
EC24-150K	15	50	2.52	16	0.88	335	Bn	Gn	Bk	S
EC24-180K	18	50	2.52	15	1.00	315	Bn	Gy	Bk	S
EC24-220K	22	60	2.52	13	1.20	285	R	R	Bk	S
EC24-270K	27	60	2.52	11	1.35	270	R	V	Bk	S
EC24-330K	33	50	2.52	10	1.50	255	O	O	Bk	S
EC24-390K	39	50	2.52	9.5	1.70	240	O	W	Bk	S
EC24-470K	47	60	2.52	8.5	2.30	205	Y	V	Bk	S
EC24-560K	56	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
EC24-680K	68	60	2.52	6.5	2.90	185	Be	Gy	Bk	S
EC24-820K	82	55	2.52	6.0	3.20	175	Gy	R	Bk	S
EC24-101K	100	60	2.52	5.5	3.50	165	Bn	Bk	Bn	S
EC24-121K	120	75	0.796	5.4	3.80	160	Bn	R	Bn	S
EC24-151K	150	75	0.796	4.75	4.40	150	Bn	Gn	Bn	S
EC24-181K	180	75	0.796	4.35	5.00	140	Bn	Gy	Bn	S
EC24-221K	220	75	0.796	4.0	5.70	130	R	R	Bn	S
EC24-271K	270	70	0.796	3.7	6.50	120	R	V	Bn	S
EC24-331K	330	70	0.796	3.4	9.50	100	O	O	Bn	S
EC24-391K	390	70	0.796	2.8	10.5	95	O	W	Bn	S
EC24-471K	470	70	0.796	2.55	12.5	90	Y	V	Bn	S
EC24-561K	560	70	0.796	2.35	14.5	85	Gn	Be	Bn	S
EC24-681K	680	70	0.796	2.0	18.0	75	Be	Gy	Bn	S
EC24-821K	820	60	0.796	1.6	23.7	65	Gy	R	Bn	S
EC24-102K	1000	60	0.796	1.2	30.0	60	Bn	Bk	R	S



I EC36 series

Part No.	L (uH)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC36-R10K	0.10	50	25.2	470	0.04	900	Bn	Bk	S	S
EC36-R12K	0.12	50	25.2	450	0.06	900	Bn	R	S	S
EC36-R15K	0.15	50	25.2	430	0.07	890	Bn	Gn	S	S
EC36R18K	0.18	50	25.2	410	0.07	890	Bn	Gy	S	S
EC36-R22K	0.22	50	25.2	380	0.08	880	R	R	S	S
EC36-R27K	0.27	50	25.2	340	0.09	800	R	V	S	S
EC36-R33K	0.33	50	25.2	300	0.10	750	O	O	S	S
EC36-R39K	0.39	50	25.2	280	0.12	680	O	W	S	S
EC36-R47K	0.47	50	25.2	250	0.16	650	Y	V	S	S
EC36-R56K	0.56	50	25.2	230	0.18	600	Gn	Be	S	S
EC36-R68K	0.68	50	25.2	210	0.22	550	Be	Gy	S	S
EC36-R82K	0.82	50	25.2	172	0.24	980	Gy	R	S	S
EC36-1R0K	1.0	50	25.2	157	0.09	920	Bn	Bk	Gd	S
EC36-1R2K	1.2	50	7.96	144	0.10	880	Bn	R	Gd	S
EC36-1R5K	1.5	55	7.96	131	0.23	830	Bn	Gn	Gd	S
EC36-1R8K	1.8	60	7.96	121	0.25	790	Bn	Gy	Gd	S
EC36-2R2K	2.2	80	7.96	110	0.28	750	R	R	Gd	S
EC36-2R7K	2.7	85	7.96	100	0.30	720	R	V	Gd	S
EC36-3R3K	3.3	90	7.96	94	0.34	670	O	O	Gd	S
EC36-3R9K	3.9	90	7.96	86	0.37	640	O	W	Gd	S
EC36-4R7K	4.7	90	7.96	80	0.39	620	Y	V	Gd	S
EC36-5R6K	5.6	80	7.96	74	0.43	590	Gn	Be	Gd	S
EC36-6R8K	6.8	80	7.96	58	0.48	550	Be	Gy	Gd	S
EC36-8R2K	8.2	85	7.96	53	0.52	530	Gy	R	Gd	S
EC36-100K	10	85	7.96	45	0.58	500	Bn	Bk	Gd	S
EC36-120K	12	75	2.52	30	0.63	480	Bn	R	Bk	S
EC36-150K	15	75	2.52	20	0.72	460	Bn	Gn	Bk	S
EC36-180K	18	70	2.52	14	0.77	430	Bn	Gy	Bk	S
EC36-220K	22	65	2.52	9.9	0.84	410	R	R	Bk	S
EC36-270K	27	65	2.52	7.6	0.94	390	R	V	Bk	S
EC36-330K	33	55	2.52	6.3	1.03	370	O	O	Bk	S
EC36-390K	39	55	2.52	6.3	1.12	350	O	W	Bk	S
EC36-470K	47	45	2.52	6.3	1.22	340	Y	V	Bk	S
EC36-560K	56	45	2.52	6.2	1.34	320	Gn	Be	Bk	S
EC36-680K	68	40	2.52	5.7	1.47	305	Be	Gy	Bk	S
EC36-820K	82	35	2.52	5.3	1.62	290	Gy	R	Bk	S
EC36-101K	100	30	2.52	4.8	1.80	275	Bn	Bk	Bn	S
EC36-121K	120	70	0.796	3.8	3.70	185	Bn	R	Bn	S
EC36-151K	150	80	0.796	3.5	4.20	175	Bn	Gn	Bn	S
EC36-181K	180	80	0.796	3.3	4.60	165	Bn	Gy	Bn	S
EC36-221K	220	70	0.796	3.0	5.10	155	R	R	Bn	S
EC36-271K	270	70	0.796	2.8	5.80	145	R	V	Bn	S
EC36-331K	330	65	0.796	2.6	6.40	137	O	O	Bn	S
EC36-391K	390	65	0.796	2.4	7.00	133	O	W	Bn	S
EC36-471K	470	60	0.796	2.25	7.70	126	Y	V	Bn	S
EC36-561K	560	60	0.796	2.10	8.50	120	Gn	Be	Bn	S
EC36-681K	680	55	0.796	1.95	9.40	113	Be	Gy	Bn	S
EC36-821K	820	55	0.796	1.85	12.0	100	Gy	R	Bn	S
EC36-102K	1000	50	0.252	1.40	17.0	100	Bn	Bk	R	S



I EC38 series

Part No.	L (uH)	Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA)Max.	Color code			
							1st	2nd	3rd	4th
EC38-1R0M	1.0	7.96MH	190	0.018	3000	3300	Bn	Bk	Gd	Bk
EC38-1R2M	1.2	7.96MH	170	0.019	2700	3200	Bn	R	Gd	Bk
EC38-1R5M	1.5	7.96MH	160	0.020	2500	3100	Bn	Gn	Gd	Bk
EC38-1R8M	1.8	7.96MH	150	0.023	2100	2900	Bn	Gy	Gd	Bk
EC38-2R2M	2.2	7.96MH	130	0.031	2000	2600	R	R	Gd	Bk
EC38-2R7M	2.7	7.96MH	120	0.033	1900	2500	R	V	Gd	Bk
EC38-3R3M	3.3	7.96MH	110	0.054	1700	1900	O	O	Gd	Bk
EC38-3R9M	3.9	7.96MH	100	0.060	1500	1800	O	W	Gd	Bk
EC38-4R7K	4.7	7.96MH	86	0.068	1400	1700	Y	V	Gd	S
EC38-5R6K	5.6	7.96MH	64	0.074	1300	1600	Gn	Be	Gd	S
EC38-6R8K	6.8	7.96MH	44	0.080	1200	1600	Be	Gy	Gd	S
EC38-8R2K	8.2	7.96MH	32	0.087	1100	1500	Gy	R	Gd	S
EC38-100K	10	1kHz	25	0.095	970	1500	Bn	Bk	Gd	S
EC38-120K	12	1kHz	17	0.110	880	1400	Bn	R	Bk	S
EC38-150K	15	1kHz	13	0.150	790	1200	Bn	Gn	Bk	S
EC38-180K	18	1kHz	10	0.16	710	1100	Bn	Gy	Bk	S
EC38-220K	22	1kHz	8.40	0.19	640	1000	R	R	Bk	S
EC38-270K	27	1kHz	8.00	0.22	580	950	R	V	Bk	S
EC38-330K	33	1kHz	7.60	0.24	530	910	O	O	Bk	S
EC38-390K	39	1kHz	7.10	0.26	480	880	O	W	Bk	S
EC38-470K	47	1kHz	6.00	0.35	430	760	Y	V	Bk	S
EC38-560K	56	1kHz	5.80	0.47	400	650	Gn	Be	Bk	S
EC38-680K	68	1kHz	4.30	0.53	370	610	Be	Gy	Bk	S
EC38-820K	82	1kHz	4.10	0.60	330	580	Gy	R	Bk	S
EC38-101K	100	1kHz	3.90	0.67	300	550	Bn	Bk	Bn	S
EC38-121K	120	1kHz	3.60	0.90	270	470	Bn	R	Bn	S
EC38-151K	150	1kHz	3.20	1.20	250	410	Bn	Gn	Bn	S
EC38-181K	180	1kHz	2.80	1.40	220	380	Bn	Gy	Bn	S
EC38-221K	220	1kHz	2.30	1.90	200	320	R	R	Bn	S
EC38-271K	270	1kHz	2.10	2.10	180	310	R	V	Bn	S
EC38-331K	330	1kHz	1.90	2.40	170	290	O	O	Bn	S
EC38-391K	390	1kHz	1.70	3.00	150	260	O	W	Bn	S
EC38-471K	470	1kHz	1.40	3.40	140	240	Y	V	Bn	S
EC38-561K	560	1kHz	1.30	4.70	130	210	Gn	Be	Bn	S
EC38-681K	680	1kHz	1.20	6.40	110	180	Be	Gy	Bn	S
EC38-821K	820	1kHz	1.10	7.10	100	170	Gy	R	Bn	S
EC38-102K	1000	1kHz	1.00	7.90	95	160	Bn	Bk	R	S
EC38-122K	1200	1kHz	0.94	9.00	87	150	Bn	R	R	S
EC38-152K	1500	1kHz	0.76	12.0	78	130	Bn	Gn	R	S
EC38-182K	1800	1kHz	0.72	14.0	71	120	Bn	Gy	R	S
EC38-222K	2200	1kHz	0.64	19.0	64	100	R	R	R	S
EC38-272K	2700	1kHz	0.56	25.0	58	90	R	V	R	S
EC38-332K	3300	1kHz	0.53	29.0	52	83	O	O	R	S
EC38-392K	3900	1kHz	0.48	34.0	48	77	O	W	R	S
EC38-472K	4700	1kHz	0.45	37.0	44	74	Y	V	R	S
EC38-562K	5600	1kHz	0.40	50.0	40	63	Gn	Be	R	S
EC38-682K	6800	1kHz	0.36	58.0	36	59	Be	Gy	R	S
EC38-822K	8200	1kHz	0.29	68.0	33	54	Gy	R	R	S
EC38-103K	10000	1kHz	0.27	75.0	30	52	Bn	Bk	O	S

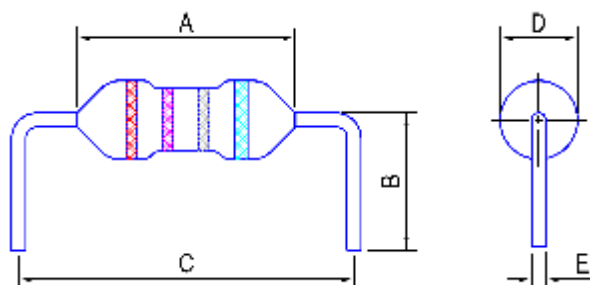
• EC0410 series

Part No.	L (uH)	Q Min.	L.Q TestFreq MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA) Max.	Color code			
								1st	2nd	3rd	4th
EC0410-1R0M	1.0	10	7.96	300	0.022	5600	3800	Bn	Bk	Gd	Bk
EC0410-1R2M	1.2	10	7.96	260	0.024	5500	3700	Bn	R	Gd	Bk
EC0410-1R5M	1.5	10	7.96	250	0.026	5000	3600	Bn	Gn	Gd	Bk
EC0410-1R8M	1.8	10	7.96	240	0.029	4700	3100	Bn	Gy	Gd	Bk
EC0410-2R2M	2.2	10	7.96	220	0.031	4500	2900	R	R	Gd	Bk
EC0410-2R7M	2.7	10	7.96	195	0.034	4000	2700	R	V	Gd	Bk
EC0410-3R3M	3.3	10	7.96	155	0.038	3400	2600	O	O	Gd	Bk
EC0410-3R9M	3.9	10	7.96	115	0.040	3100	2500	O	W	Gd	Bk
EC0410-4R7K	4.7	10	7.96	85	0.044	2800	2400	Y	V	Gd	S
EC0410-5R6K	5.6	10	7.96	55	0.048	2600	2100	Gn	Be	Gd	S
EC0410-6R8K	6.8	10	7.96	50	0.051	2400	2000	Be	Gy	Gd	S
EC0410-8R2K	8.2	10	7.96	38	0.056	2200	1950	Gy	R	Gd	S
EC0410-100K	10	10	7.96	24	0.062	2100	1900	Bn	Bk	Bk	S
EC0410-120K	12	10	2.52	18	0.076	1800	1800	Bn	R	Bk	S
EC0410-150K	15	10	2.52	16	0.088	1700	1700	Bn	Gn	Bk	S
EC0410-180K	18	10	2.52	15	0.11	1600	1600	Bn	Gy	Bk	S
EC0410-220K	22	10	2.52	14	0.13	1400	1550	R	R	Bk	S
EC0410-270K	27	10	2.52	13	0.14	1300	1300	R	V	Bk	S
EC0410-330K	33	10	2.52	11	0.20	1200	1200	O	O	Bk	S
EC0410-390K	39	10	2.52	10	0.22	1100	1000	O	W	Bk	S
EC0410-430K	43	10	2.52	9.5	0.28	1000	950	Y	O	Bk	S
EC0410-470K	47	10	2.52	9.5	0.28	1000	950	Y	V	Bk	S
EC0410-560K	56	10	2.52	8.0	0.30	900	900	Gn	Be	Bk	S
EC0410-680K	68	10	2.52	7.5	0.34	800	800	Be	Gy	Bk	S
EC0410-820K	82	10	2.52	7.0	0.385	700	750	Gy	R	Bk	S
EC0410-101K	100	10	2.52	6.5	0.480	700	700	Bn	Bk	Bn	S
EC0410-121K	120	15	0.796	5.0	0.595	600	600	Bn	R	Bn	S
EC0410-151K	150	15	0.796	4.5	0.90	550	500	Bn	Gn	Bn	S
EC0410-181K	180	15	0.796	4.0	1.10	500	400	Bn	Gy	Bn	S
EC0410-221K	220	15	0.796	3.8	1.25	440	390	R	R	Bn	S
EC0410-271K	270	15	0.796	3.5	1.85	420	330	R	V	Bn	S
EC0410-331K	330	15	0.796	3.0	2.10	380	310	O	O	Bn	S
EC0410-391K	390	15	0.796	2.8	2.28	340	300	O	W	Bn	S
EC0410-471K	470	15	0.796	2.5	3.22	320	280	Y	V	Bn	S
EC0410-561K	560	15	0.796	2.2	3.85	290	270	Gn	Be	Bn	S
EC0410-681K	680	15	0.796	2.1	4.0	260	240	Be	Gy	Bn	S
EC0410-821K	820	15	0.796	2.0	5.0	250	230	Gy	R	Bn	S
EC0410-102K	1000	15	0.796	1.8	5.8	240	190	Bn	Bk	R	S
EC0410-122K	1200	15	0.252	1.6	7.1	200	180	Bn	R	R	S
EC0410-152K	1500	15	0.252	1.5	7.8	190	170	Bn	Gn	R	S
EC0410-472K	4700	15	0.252	0.7	30	120	100	Y	V	R	S

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



U Shape and Size : (unit: mm)



Product Identification :

EC36-□□□-U□X□

(1) (2) (3)

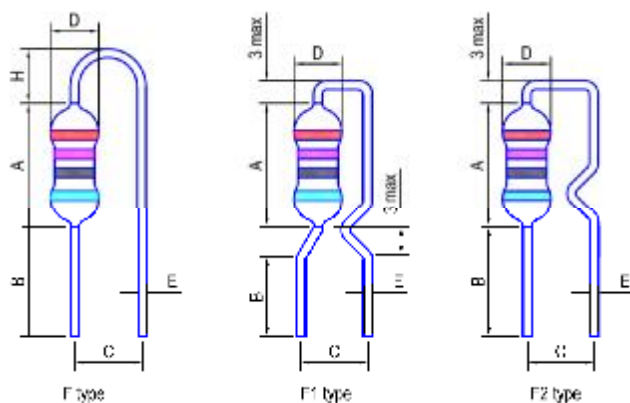
(1) Inductance and tolerance.

(2) Lead pitch (size C).

(3) Lead length (size B).

Type	A	B	C	D	E
EC22-□□□-U□X□	4.0 Max	4.0 Min	6 ~ 15	2.8 Max	0.50
EC23-□□□-U□X□	6.35 Max	4.0 Min	7.5 ~ 15	2.3 Max	0.50
EC24-□□□-U□X□	8.0 Max	4.0 Min	10 ~ 20	3.0 Max	0.55
EC36-□□□-U□X□	11.0 Max	4.0 Min	12.5 ~ 20	4.0 Max	0.65
EC38-□□□-U□X□	12.7 Max	4.0 Min	15 ~ 20	4.2 Max	0.65
EC46-□□□-U□X□	12.0 Max	4.0 Min	12.5 ~ 20	5.0 Max	0.65
EC0410-□□□-U□X□	15.0 Max	4.0 Min	17.5 ~ 25	5.0 Max	0.65

F Shape and Size : (unit: mm)



Product Identification :

EC36 - □□□ - F□

(1) (2)

(1) Inductance and tolerance.

(2) Forming shape.

Type	A	B	C	D	E	H
EC22-□□□-F / F1 / F2	4.0 Max	4.0 Min	5.0 Ref	2.8 Max	0.50	3.0 Max
EC23-□□□-F / F1 / F2	6.35 Max	4.0 Min	5.0 Ref	2.3 Max	0.50	3.0 Max
EC24-□□□-F / F1 / F2	8.0 Max	4.0 Min	5.0 Ref	3.0 Max	0.55	3.0 Max
EC36-□□□-F / F2	11.0 Max	4.0 Min	5.0 Ref	4.0 Max	0.65	4.0 Max
EC38-□□□-F / F2	12.7 Max	4.0 Min	5.0 Ref	4.2 Max	0.65	4.0 Max
EC46-□□□-F / F2	12.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	4.0 Max
EC0410-□□□-F / F2	15.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	5.0 Max



FC SERIES

BASIC MODEL HIGH CURRENT CHOKE

Shape and Dimensions (Dimensions are in mm) :



Fig1:standard type

Fig2

Item	A Max.	D Max.	C typ.	C1 typ.
FC0205	6.0	3.5	3.5	3.5
FC0310	11.0	5.0	7.5	5.0
FC0415	16.0	5.5	12.5	6.0
FC0520	21.0	7.0	15.0	8.0
FC0630	31.0	9.5	25.0	10.0

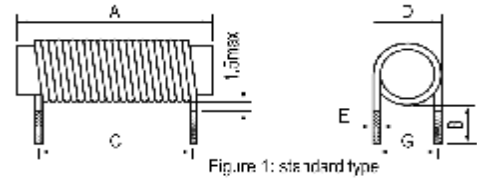


Figure 1: standard type

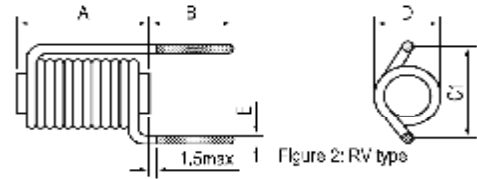


Figure 2: RV type

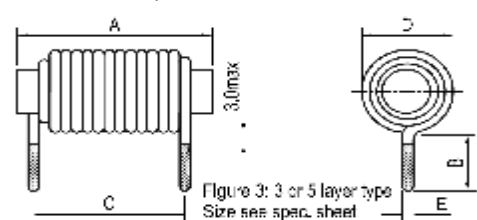


Figure 3: 3 or 5 layer type
Size see spec. sheet

Applications :

- Power supplies .
- Power amplifiers .
- Noise filter for Switching regulators .
- SCR and Triac circuits .

Features :

- High saturation current .
- General purpose inductors .
- Low cost design .
- Tin plated leads .
- Varnish coated or UL tube.

Characteristics :

- Rated Current : It is either the inductance is 20% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=25^{\circ}\text{C}$ ($T_a=20$)
Whichever lower.
- Operating temperature : -20°C to 80°C .

Product Identification :

FC 0520 - 100 K - 8RV - UL

(1) (2) (3) (4) (5) (6)

- (1) Type : **Basic model high current choke .**
- (2) Style : Core **D=5 mm L=20 mm .**
- (3) Inductance : Example : **100** for **10 uH**
- (4) Inductance tolerance : **K** : $\pm 10\%$; **M** : $\pm 20\%$.
- (5) Shape: **8RV** indicate PIN's length is 8mm and **Right wound and Vertical structure**; No code is normal type.
- (6) Sleeve:"**UL**": UL Tube,black; No code: no sleeve.

Test equipment and test steup :

L: LCR meter, @1kHz/0.25V, 25°C .

DCR: Milli-ohm meter.

- Electrical specifications at 25°C .



I FC0205 / 0310 / 0415 / 0520 / 0630 series

Part No.	L @1KHz (uH)	DCR (Ω) Max	Rated Current (A) Max.	SRF (MHz) Min.	Wire Size (mm)	No. of Turns Ref.	Net Weight g/pcs
FC0205-1R0K	1.0	0.040	0.56	200	0.30	11.5	0.150
FC0205-1R2K	1.2	0.040	0.56	180	0.30	12.5	0.165
FC0310-1R8K	1.8	0.026	1.90	160	0.55	11.5	0.70
FC0310-2R2K	2.2	0.028	1.57	150	0.50	13.5	0.714
FC0310-2R7K	2.7	0.030	1.57	140	0.50	15.5	0.729
FC0310-3R3K	3.3	0.035	1.27	135	0.45	17.5	0.686
FC0310-3R9K	3.9	0.050	1.00	110	0.40	18.5	0.634
FC0310-4R7K	4.7	0.070	0.76	90	0.35	19.5	0.575

Part No.	L @1KHz (uH)	DCR (Ω) Max	Rated Current (A)Max.	SRF (MHz) Min.	Wire Size (mm)	No. of Turns Ref.	Net Weight g/pcs
FC0415-4R7K	4.7	0.240	2.26	90	0.60	17.5	1.60
FC0415-5R6K	5.6	0.030	1.90	80	0.55	18.5	1.40
FC0415-6R8K	6.8	0.040	1.57	80	0.50	18.5	1.40
FC0415-8R2K	8.2	0.060	1.27	80	0.45	21.5	1.32
FC0415-100K	10	0.080	1.00	70	0.40	24.5	1.20
FC0520-100K	10	0.040	2.65	60	0.65	22.5	3.10
FC0520-120K	12	0.044	2.26	55	0.60	23.5	2.98
FC0520-150K	15	0.060	1.90	45	0.55	27.5	2.97
FC0520-180K	18	0.080	1.57	40	0.50	29.5	2.87
FC0520-220K	22	0.100	1.27	38	0.45	32.5	2.73
FC0520-270K	27	0.150	1.00	36	0.40	36.5	2.63
FC0630-4R7K	4.7	0.005	16.08	85	1.60	12.5	10.2
FC0630-5R6K	5.6	0.005	16.08	80	1.60	14.5	11.0
FC0630-6R8K	6.8	0.008	10.61	75	1.30	15.5	8.68
FC0630-8R2K	8.2	0.009	9.04	67	1.20	16.5	8.35
FC0630-100K	10	0.010	9.04	64	1.20	19.5	8.80
FC0630-120K	12	0.018	6.28	57	1.00	20.5	7.43
FC0630-150K	15	0.023	5.08	53	0.90	23.5	7.23
FC0630-180K	18	0.030	4.02	49	0.80	24.5	6.70
FC0630-220K	22	0.045	3.07	44	0.70	27.5	6.24
FC0630-270K	27	0.050	3.07	42	0.70	31.5	6.40
FC0630-330K	33	0.060	2.65	36	0.65	35.5	6.53
FC0630-390K	39	0.080	2.26	34	0.60	40.5	6.23
FC0630-470K	47	0.110	1.90	32	0.55	44.5	6.22
FC0630-560K	56	0.140	1.57	30	0.50	46.5	5.80



I FC series

Part No.	L @1KHz (uH)	DCR (Ω) Max	SRF (MHz) Min.	Rated Current (A)Max.	Dimensions (mm)			
					A Max.	D Max.	C ±2.0	E ±0.10
FC0820-5R0N -3A	5.0	0.015	40	3.0	22.23	15.88	12.70	1.0
FC1025- 100N- 3A	10	0.081	25	3.0	28.58	15.88	17.45	1.0
FC0820- 270N- 3A	27	0.035	8	3.0	22.23	20.62	11.10	1.0
FC0525- 500N- 3A	50	0.050	5	3.0	28.58	20.62	19.05	1.0
FC0828- 101N- 3A	100	0.065	2.5	3.0	28.58	20.62	23.80	1.0
FC0832- 151N- 3A	150	0.075	2	3.0	34.93	20.62	26.97	1.0
FC0840- 251N- 3A	250	0.090	1	3.0	41.28	20.62	33.32	1.0
FC1020- 5R0N -5A	5.0	0.012	30	5.0	22.23	16.62	19.05	1.3
FC0828- 100N- 5A	10	0.015	20	5.0	28.53	16.62	25.40	1.3
FC0820- 270N- 5A	27	0.025	7	5.0	22.23	22.23	14.27	1.3
FC1025- 500N- 5A	50	0.030	4	5.0	28.53	22.23	19.05	1.3
FC0828- 680N- 5A	68	0.035	3.5	5.0	28.53	22.23	22.23	1.3
FC1032- 101N- 5A	100	0.050	2.5	5.0	34.93	22.23	25.40	1.3
FC1040- 151N- 5A	150	0.060	2	5.0	41.28	22.23	31.75	1.3
FC1025- 5R0N -10A	5.0	0.010	30	10	28.53	17.45	20.62	1.6
FC1032- 100N- 10A	10	0.012	20	10	34.93	17.45	30.94	1.6
FC1825- 270N- 10A	27	0.018	7	10	28.53	23.80	17.45	1.6
FC0832- 500N- 10A	50	0.025	4	10	34.93	23.80	23.80	1.6
FC1032- 680N- 10A	68	0.027	3.5	10	34.93	23.80	28.53	1.6
FC1040- 101N- 10A	100	0.030	2.5	10	41.28	23.80	33.32	1.6
FC1032- 5R0N -15A	5.0	0.008	30	15	34.93	18.42	23.80	2.0
FC1040- 100N- 15A	10	0.010	20	15	42.85	18.42	38.10	2.0
FC0828- 270N- 15A	27	0.015	7	15	34.93	25.40	23.80	2.0
FC1035- 500N- 15A	50	0.020	4	15	41.28	25.40	28.53	2.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

FS SERIES

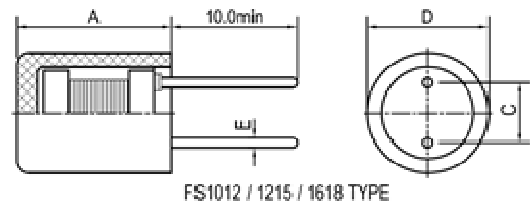
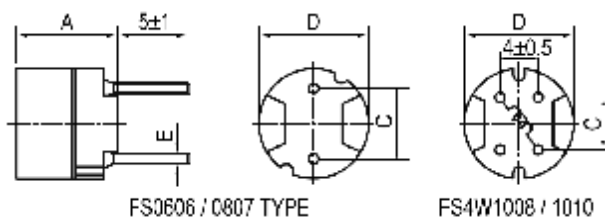
FERRITE SHIELDED.

Applications:

- Video cameras
- Portable VCRs
- Audio equipments
- Other circuits of consideration against radiation



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	D Max.	C	E typ.
FS0606	6.5	6.5	4.0 ± 0.5	0.55
FS0807	7.5	8.3	5.0 ± 0.5	0.65
FS4W1018	8.5	10.5	5.0 ± 0.5	0.65
FS4W1010	10.5	10.5	5.0 ± 0.5	0.65
FS1012	13.5	11.0	5.0 ± 1.0	0.80
FS1215	17.0	13.4	5.0 ± 1.0	0.80
FS1618	19.2	17.0	7.5 ± 1.0	0.80
FSB1014	14.0	11.0	5.0 ± 0.5	0.80

Features :

- No inductive interference
- FS0606/0807/1008/1010/1215/1618 are high power inductors
- FS1012/FSB1014 are excellent Q frequency characteristics and high self-resonant frequency.
- S0606/0807/1012 Taped for auto-insertion.
- RoHS compliant.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T = 20^\circ\text{C}$ ($T_a = 20$)
Whichever lower.
- Operating temperature: -20°C to 85°C .

Product Identification:

FS 1012 - 223 K - TF

(1) (2) (3) (4) (5)

- (1) Type : Ferrite Shielded.
- (2) Style : core size, OD=10,L=12.
- (3) Inductance : **223** for 22mH .
- (4) Inductance tolerance :
K: $\pm 10\%$; **L**: 15%; **M**: $\pm 20\%$;
- (5) Packing : TF: Tape; No code: Bulk .

Test equipment :

- L: LCR meter.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



I FS0606 / 0807 / 1008 / 4W1010 series

Part No.	L (uH)	Test Freq.	DCR (Ω) Max.				Rated Current (mA) Max.			
			FS0606	FS0807	FS4W 1008	FS4W 1010	FS0606	FS0807	FS4W 1008	FS4W 1010
100L	10	2.52MHz			0.05	0.023			2800	3510
120L	12	2.52MHz			0.06	0.024			2500	3240
150L	15	2.52MHz			0.07	0.036			2300	2880
180L	18	2.52MHz			0.08	0.039			2100	2610
220L	22	2.52MHz	0.13	0.08	0.09	0.042	960	1600	2000	2340
270L	27	2.52MHz	0.18	0.10	0.10	0.045	870	1400	1760	2160
330L	33	2.52MHz	0.21	0.14	0.11	0.057	780	1300	1600	1890
390L	39	2.52MHz	0.26	0.15	0.12	0.076	720	1200	1380	1800
470L	47	2.52MHz	0.29	0.17	0.14	0.100	660	1100	1280	1620
560K	56	2.52MHz	0.33	0.19	0.15	0.110	600	990	1200	1440
680K	68	2.52MHz	0.36	0.21	0.16	0.150	550	890	1000	1350
820K	82	2.52MHz	0.39	0.27	0.18	0.160	500	810	960	1260
101K	100	1KHz	0.54	0.32	0.20	0.190	450	740	920	1080
121K	120	1KHz	0.62	0.36	0.24	0.210	410	670	800	990
151K	150	1KHz	0.72	0.51	0.35	0.230	370	600	730	900
181K	180	1KHz	0.88	0.57	0.40	0.260	340	550	640	820
221K	220	1KHz	0.99	0.76	0.54	0.290	300	500	610	740
271K	270	1KHz	1.52	0.86	0.76	0.360	270	450	560	670
331K	330	1KHz	1.69	0.97	0.86	0.510	250	410	500	610
391K	390	1KHz	1.85	1.28	0.93	0.690	230	370	440	550
471K	470	1KHz	2.85	1.44	1.23	0.980	210	340	410	510
561K	560	1KHz	3.21	1.61	1.34	1.100	190	310	380	460
681K	680	1KHz	3.60	2.07	1.53	1.200	170	280	340	420
821K	820	1KHz	4.87	2.33	2.10	1.300	160	260	320	380
102K	1000	1KHz	5.65	2.72	2.30	1.500	140	230	280	350
122K	1200	1KHz		3.98				210		
152K	1500	1KHz		4.50				190		
182K	1800	1KHz		6.81				170		
222K	2200	1KHz		7.56				160		
272K	2700	1KHz		8.54				140		
332K	3300	1KHz		9.74				130		
392K	3900	1KHz		12.9				120		
472K	4700	1KHz		14.7				110		
562K	5600	1KHz		20.4				99		
682K	6800	1KHz		23.0				89		
822K	8200	1KHz		30.6				81		
103K	10000	1KHz		35.0				74		



I FS1012 series

Part No.	L (mH) @1KHz	Q Min.	Q Test Freq.	DCR (Ω) Max.	Rated Current (mA) Max.
FS1012 -122K	1.2	50	252 kHz	1.2	200
FS1012 -152K	1.5	50	252 kHz	1.5	200
FS1012 -182K	1.8	50	252 kHz	1.6	200
FS1012 -222K	2.2	50	252 kHz	1.8	200
FS1012 -272K	2.7	40	252 kHz	1.9	200
FS1012 -332K	3.3	40	252 kHz	2.3	200
FS1012 -392K	3.9	40	252 kHz	2.5	200
FS1012 -472K	4.7	40	252 kHz	3.7	140
FS1012 -502K	5.0	40	252 kHz	3.8	140
FS1012 -562K	5.6	40	252 kHz	4.0	140
FS1012 -682K	6.8	40	252 kHz	4.2	140
FS1012 -822K	8.2	40	252 kHz	5.3	140
FS1012 -103K	10	100	79.6 kHz	7.3	100
FS1012 -123K	12	100	79.6 kHz	8.3	100
FS1012 -153K	15	100	79.6 kHz	11.0	90
FS1012 -183K	18	100	79.6 kHz	13.6	75
FS1012 -223K	22	100	79.6 kHz	15.4	75
FS1012 -273K	27	100	79.6 kHz	17.9	75
FS1012 -333K	33	100	79.6 kHz	23.3	60
FS1012 -393K	39	100	79.6 kHz	25.9	60
FS1012 -473K	47	80	79.6 kHz	30.4	60
FS1012 -503K	50	80	79.6 kHz	37.8	50
FS1012 -563K	56	80	79.6 kHz	39.1	50
FS1012 -683K	68	50	79.6 kHz	40	50
FS1012 -823K	82	50	79.6 kHz	47	40
FS1012 -104K	100	120	25.2 kHz	50	40
FS1012 -124K	120	100	25.2 kHz	91	30
FS1012 -154K	150	90	25.2 kHz	140	20
FS1012 -184K	180	90	25.2 kHz	164	20
FS1012 -224K	220	90	25.2 kHz	182	20
FS1012 -274K	270	90	25.2 kHz	200	20
FS1012 -334K	330	80	25.2 kHz	275	15
FS1012 -394K	390	80	25.2 kHz	300	15
FS1012 -474K	470	80	25.2 kHz	345	15
FS1012 -564K	560	60	25.2 kHz	520	8.4
FS1012 -684K	680	60	25.2 kHz	590	8.4
FS1012 -824K	820	50	25.2 kHz	675	8.4
FS1012 -105K	1000	50	25.2 kHz	770	8.4
FS1012 -125K	1200	50	25.2 kHz	845	8.4



I FS1215 / 1618 series

Part No.	L (uH) @1KHz	DCR (Ω) Max.		I sat (A) Max. ¹		I rms (A) Max. ²	
		FS1215	FS1618	FS1215	FS1618	FS1215	FS1618
100L	10	0.015	0.020	5.0	7.0	3.61	5.20
150L	15	0.017	0.022	4.0	6.0	3.16	4.90
180L	18	0.020	0.025	3.7	5.2	2.81	4.70
220L	22	0.021	0.028	3.3	4.9	2.44	4.50
270L	27	0.023	0.032	3.0	4.3	2.12	4.30
330L	33	0.024	0.033	2.7	3.9	1.80	4.10
390L	39	0.027	0.036	2.5	3.7	1.64	3.90
470L	47	0.032	0.038	2.3	3.4	1.57	3.60
560L	56	0.045	0.042	2.1	3.1	1.39	3.50
680L	68	0.060	0.046	1.9	2.9	1.26	3.40
820L	82	0.070	0.049	1.7	2.8	1.18	3.10
101L	100	0.09	0.053	1.5	2.5	1.14	2.90
151L	150	0.11	0.077	1.0	2.0	0.82	2.30
181L	180	0.12	0.10	0.90	1.8	0.73	2.10
221L	220	0.14	0.14	0.82	1.6	0.61	1.70
271L	270	0.16	0.20	0.74	1.4	0.54	1.50
331L	330	0.17	0.27	0.68	1.3	0.52	1.40
391L	390	0.32	0.41	0.62	1.2	0.48	1.10
471L	470	0.35	0.46	0.56	1.1	0.44	1.00
561L	560	0.39	0.51	0.52	1.0	0.40	0.98
681L	680	0.44	0.56	0.46	0.90	0.38	0.94
821L	820	0.56	0.63	0.42	0.83	0.28	0.90
102L	1000	0.68	0.69	0.38	0.75	0.27	0.86
122L	1200	0.78		0.35		0.26	
152L	1500	1.10		0.31		0.23	
182L	1800	1.20		0.28		0.21	
222L	2200	1.30		0.25		0.18	

NOTE :

- 1.Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value.(Ta=20°C)
- 2.Temperature Rise Current(I rms): The current when temperature of coil increase up to max.ΔT=20°C.(Ta=20°C)



I FSB1014 series

Part No.	L (mH) @1KHz	Q Min.	Q Test Freq.	DCR (Ω) Max.	Rated Current (mA) Max.
FSB1014 - 102K	1.0	15	252 KHz	2.0	270
FSB1014 - 122K	1.2	15	252 KHz	2.3	250
FSB1014 - 152K	1.5	15	252 KHz	2.7	220
FSB1014 - 182K	1.8	15	252 KHz	3.0	220
FSB1014 - 222K	2.2	15	252 KHz	3.8	200
FSB1014 - 272K	2.7	15	252 KHz	4.5	180
FSB1014 - 332K	3.3	20	252 KHz	6.0	160
FSB1014 - 392K	3.9	20	252 KHz	7.8	120
FSB1014 - 472K	4.7	20	252 KHz	10.5	120
FSB1014 - 562K	5.6	20	252 KHz	11.0	100
FSB1014 - 682K	6.8	20	252 KHz	11.8	100
FSB1014 - 822K	8.2	20	252 KHz	13.2	100
FSB1014 - 103K	10	60	79.6 KHz	17.6	90
FSB1014 - 123K	12	60	79.6 KHz	22.5	75
FSB1014 - 153K	15	60	79.6 KHz	25	75
FSB1014 - 183K	18	60	79.6 KHz	32	60
FSB1014 - 223K	22	60	79.6 KHz	36	60
FSB1014 - 273K	27	60	79.6 KHz	46	50
FSB1014 - 333K	33	60	79.6 KHz	54	50
FSB1014 - 393K	39	45	79.6 KHz	72	40
FSB1014 - 473K	47	45	79.6 KHz	76	40
FSB1014 - 563K	56	45	79.6 KHz	89	40
FSB1014 - 683K	68	30	79.6 KHz	123	30
FSB1014 - 823K	82	30	79.6 KHz	135	30
FSB1014 - 104K	100	45	25.2 KHz	205	20
FSB1014 - 124K	120	45	25.2 KHz	228	20

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



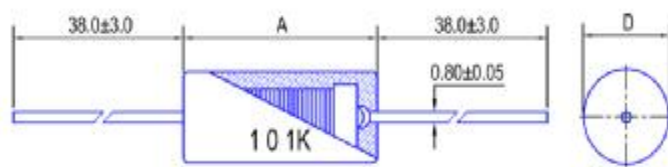
MF SERIES

MOLDED FILTER .

Applications :

- TVs and Audio equipment.
- Telecommunication devices.
- RF filters.
- Other noise filters.

Shape and Dimensions (Dimensions are in mm) :



Item	A ±0.5	D
MF0616	16.4	By Each P/N
MF6514	14.5	By Each P/N

Features :

- Well defined body dimensions.
- Smooth surface and sharper corners.
- High reliability.
- High saturation current.
- Tape and reel packaging for auto-insertion.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 20% lower than its initial value.(Ta=20°C).
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.
 $\Delta T=40^{\circ}\text{C}.$ (Ta=20°C)
- Operating temperature : -25°C to 125 °C.



Product Identification :

MF 0616 - 101 K - T5X2

(1) (2) (3) (4) (5)

- (1) Series : **Molded Filters.**
- (2) Style: size dimension.
- (3) Inductance: **101** for **100uH.**
- (4) Inductance tolerance:
J: ± 5%; K: ± 10%; M: ± 20%;
- (5) Packing: T5X2: Tape; No code: Bulk.

Test equipment :

- L: LCR meter. @1kHz 0.25V.
- DCR: Milli-ohm meter.
- Electrical specifications at 25 °C.



● MF0616 series

Part No.	L (uH) @1kHz	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
MF0616 -3R9K	3.9	0.019	7.3	1.28
MF0616 -4R7K	4.7	0.022	6.3	1.28
MF0616 -5R6K	5.6	0.024	5.6	1.28
MF0616 -6R8K	6.8	0.026	5.3	1.28
MF0616 -8R2K	8.2	0.028	4.5	1.28
MF0616 -100K	10	0.033	4.1	1.28
MF0616 -120K	12	0.037	3.6	1.28
MF0616 -150K	15	0.040	3.3	1.28
MF0616 -180K	18	0.044	3.0	1.28
MF0616 -220K	22	0.050	2.7	1.28
MF0616 -270K	27	0.058	2.5	1.28
MF0616 -330K	33	0.075	2.2	1.008
MF0616 -390K	39	0.094	2.0	0.804
MF0616 -470K	47	0.109	1.8	0.804
MF0616 -560K	56	0.140	1.7	0.804
MF0616 -680K	68	0.145	1.5	0.804
MF0616 -820K	82	0.152	1.4	0.804
MF0616 -101K	100	0.208	1.2	0.632
MF0616 -121K	120	0.283	1.1	0.508
MF0616 -151K	150	0.340	1.0	0.508
MF0616 -181K	180	0.362	0.95	0.508
MF0616 -221K	220	0.430	0.86	0.508
MF0616 -271K	270	0.557	0.77	0.400
MF0616 -331K	330	0.665	0.70	0.400
MF0616 -391K	390	0.772	0.64	0.400
MF0616 -471K	470	1.15	0.59	0.315
MF0616 -561K	560	1.27	0.54	0.315
MF0616 -681K	680	1.61	0.49	0.250
MF0616 -821K	820	1.96	0.44	0.200
MF0616 -102K	1000	2.30	0.40	0.200
MF0616 -122K	1200	2.65	0.35	0.200
MF0616 -152K	1500	3.45	0.33	0.158
MF0616 -182K	1800	4.03	0.29	0.158
MF0616 -222K	2200	4.48	0.27	0.158
MF0616 -272K	2700	5.90	0.24	0.125
MF0616 -332K	3300	6.56	0.22	0.125
MF0616 -392K	3900	8.63	0.20	0.100
MF0616 -472K	4700	10.5	0.18	0.100
MF0616 -562K	5600	13.9	0.166	0.082
MF0616 -682K	6800	16.3	0.151	0.082
MF0616 -822K	8200	20.8	0.136	0.065
MF0616 -103K	10000	26.4	0.125	0.050
MF0616 -123K	12000	29.9	0.114	0.050
MF0616 -153K	15000	42.5	0.098	0.039
MF0616 -183K	18000	48.3	0.091	0.039

● MF6514 series

Part No.	L (uH) @1kHz	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
MF6514 -1R0K	1.0	0.010	8.0	2.57
MF6514 -1R2K	1.2	0.010	7.0	2.57
MF6514 -1R5K	1.5	0.010	6.0	2.57
MF6514 -1R8K	1.8	0.011	5.5	2.26
MF6514 -2R2K	2.2	0.011	5.0	2.26
MF6514 -2R7K	2.7	0.013	4.5	2.00
MF6514 -3R3K	3.3	0.015	4.2	2.00
MF6514 -3R9K	3.9	0.018	3.8	1.57
MF6514 -4R7K	4.7	0.020	3.5	1.57
MF6514 -5R6K	5.6	0.022	3.2	1.57
MF6514 -6R8K	6.8	0.024	3.0	1.57
MF6514 -8R2K	8.2	0.027	2.7	1.57
MF6514 -100K	10	0.034	2.5	1.27
MF6514 -120K	12	0.038	2.2	1.27
MF6514 -150K	15	0.050	2.0	1.00
MF6514 -180K	18	0.057	1.8	1.00
MF6514 -220K	22	0.064	1.6	1.00
MF6514 -270K	27	0.074	1.5	1.00
MF6514 -330K	33	0.094	1.3	0.81
MF6514 -390K	39	0.105	1.2	0.81
MF6514 -470K	47	0.150	1.1	0.76
MF6514 -560K	56	0.180	1.0	0.76
MF6514 -680K	68	0.200	0.95	0.76
MF6514 -820K	82	0.240	0.90	0.64
MF6514 -101K	100	0.260	0.80	0.55
MF6514 -121K	120	0.280	0.70	0.55
MF6514 -151K	150	0.330	0.62	0.55
MF6514 -181K	180	0.470	0.56	0.39
MF6514 -221K	220	0.740	0.50	0.25
MF6514 -271K	270	0.830	0.46	0.25
MF6514 -331K	330	0.940	0.42	0.25
MF6514 -391K	390	1.05	0.38	0.25
MF6514 -471K	470	1.20	0.35	0.25
MF6514 -561K	560	1.52	0.32	0.20
MF6514 -681K	680	1.74	0.30	0.20
MF6514 -821K	820	2.0	0.26	0.20
MF6514 -102K	1000	3.1	0.24	0.14
MF6514 -122K	1200	3.4	0.22	0.14
MF6514 -152K	1500	4.6	0.20	0.09
MF6514 -182K	1800	5.3	0.18	0.09
MF6514 -222K	2200	8.7	0.16	0.06
MF6514 -272K	2700	10.0	0.15	0.06
MF6514 -332K	3300	11.2	0.13	0.06
MF6514 -392K	3900	12.6	0.12	0.06
MF6514 -472K	4700	20	0.11	0.04
MF6514 -562K	5600	22	0.10	0.04
MF6514 -682K	6800	25	0.09	0.04
MF6514 -822K	8200	35	0.08	0.03
MF6514 -103K	10000	38	0.07	0.03

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



MF SERIES

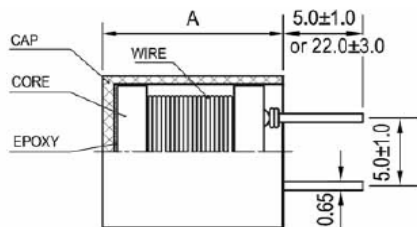
FILTER CHOKE WITH MOLDED CAP.

Applications :

- Televisions, VCD,DVD.
- Personal computer.
- Switching Power Supply.
- Telecommunication devices.



Shape and Dimensions (Dimensions are in mm) :



Item	A±0.3	D±0.3
MF0709	9.5	7.8
MF0809	9.5	8.8
MF1112	12.2	11.2

Features :

- Encapsulated in a resin housing which adds to the stability of the mounted part on a PCB.
- Low DC Resistance and high current.
- Best for the power supply line applications.
- High dimensional accuracy.
- Meets UL 94V-0 flammability standard.
- Tape packaging for auto-insertion.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 20% lower than its initial value. (Ta=20°C). (MF1112 are 10%)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=25°C. (Ta=20°C).
- Operating temperature ranges: -20 to 80°C.

Product Identification :

MF 1112 – 472 K - TF

(1) (2) (3) (4) (5)

(1) Type: Filter chokes with **M**olded cap.

(2) Style: **O**utside size.

(3) Inductance: “**472**” for **4700uH**.

(4) Inductance tolerance : **J**: ± 5%, **K**: ± 10%, **M**: ± 20%

(5) Packing: “**TF**”: Tape; No code: Bulk.

Test equipments :

- L: HP4284A Precision LCR meter @1kHz 0.25V
- Q: HP4285A Precision LCR meter.
- DCR : Millil-ohm meter
- SRF : HM9461 L-SRF meter or equivalent.
- Electrical specifications at 25 °C



I MF0709/ 0809 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF Ref. (MHz)	DCR (Ω) Max.	Rated current(A) Max.	
						I sat.	I rm
MF0709-1R0M	1.0	10	7.96MHz	70	0.006	6.6	5.0
MF0709-1R5M	1.5	10	7.96MHz	56	0.008	5.4	4.3
MF0709-2R2M	2.2	10	7.96MHz	45	0.011	4.0	3.7
MF0709-3R3M	3.3	10	7.96MHz	36	0.018	3.6	2.9
MF0709-4R7M	4.7	10	7.96MHz	29	0.022	3.1	2.6
MF0709-6R8M	6.8	10	7.96MHz	7.6	0.17	0.96	0.94
MF0709-100K	10	20	2.52MHz	6.2	0.28	0.79	0.73
MF0709-150K	15	20	2.52MHz	5.0	0.33	0.66	0.67
MF0709-220K	22	20	2.52MHz	4.0	0.56	0.53	0.52
MF0709-330K	33	20	2.52MHz	3.2	0.72	0.44	0.46
MF0709-470K	47	20	2.52MHz	7.6	0.17	0.96	0.94
MF0709-680K	68	20	2.52MHz	6.2	0.28	0.79	0.73
MF0709-101K	100	20	796KHz	5.0	0.33	0.66	0.67
MF0709-151K	150	20	796KHz	4.0	0.56	0.53	0.52
MF0709-221K	220	20	796KHz	3.2	0.72	0.44	0.46
MF0709-331K	330	20	796KHz	2.5	1.10	0.36	0.37
MF0709-471K	470	20	796KHz	2.0	1.7	0.30	0.30
MF0709-681K	680	20	796KHz	1.7	2.3	0.25	0.26
MF0709102K	1000	70	252KHz	1.3	4.3	0.20	0.19
MF0709-152K	1500	50	252KHz	1.3	5.0	0.17	0.16
MF0809-2R2M	2.2	10	7.96MHz	60	0.011	5.5	4.0
MF0809-3R3M	3.3	10	7.96MHz	38	0.013	3.8	3.4
MF0809-4R7M	4.7	10	7.96MHz	30	0.017	3.7	3.0
MF0809-6R8M	6.8	10	7.96MHz	24	0.023	2.8	2.6
MF0809-100K	10	20	2.52MHz	19	0.031	2.5	2.2
MF0809-150K	15	20	2.52MHz	15	0.042	2.0	1.9
MF0809-220K	22	20	2.52MHz	12	0.070	1.6	1.5
MF0809-330K	33	20	2.52MHz	10	0.092	1.3	1.2
MF0809-470K	47	20	2.52MHz	8.2	0.13	1.1	1.0
MF0809-680K	68	20	2.52MHz	6.6	0.16	0.91	0.97
MF0809-101K	100	15	796KHz	5.4	0.23	0.75	0.81
MF0809-151K	150	15	796KHz	4.3	0.400	0.6	0.61
MF0809-221K	220	15	796KHz	3.5	0.53	0.50	0.53
MF0809-331K	330	15	796KHz	2.8	0.78	0.41	0.44
MF0809-471K	470	10	796KHz	2.3	1.0	0.34	0.39
MF0809-681K	680	10	796KHz	1.9	1.5	0.28	0.32
MF0809-102K	1000	20	252KHz	1.5	2.2	0.23	0.26
MF0809-152K	1500	30	252KHz	1.2	3.5	0.18	0.21



I MF1112 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF Ref. (MHz)	DCR (Ω) Max.	Rated current (A) Max.	
						I sat	I rms
MF1112-3R3M	3.3	10	7.96MHz	36	0.010	8.8	5.9
MF1112-4R7M	4.7	10	7.96MHz	28	0.015	7.2	4.8
MF1112-6R8M	6.8	10	7.96MHz	18	0.016	6.1	4.6
MF1112-100M	10	20	2.52MHz	16	0.025	5.0	3.7
MF1112-150M	15	20	2.52MHz	12	0.029	4.2	3.4
MF1112-220K	22	20	2.52MHz	9.5	0.040	3.4	2.9
MF1112-330K	33	30	2.52MHz	7.0	0.062	2.8	2.3
MF1112-470K	47	30	2.52MHz	5.8	0.075	2.3	2.1
MF1112-680K	68	20	2.52MHz	4.7	0.13	1.9	1.6
MF1112-101K	100	20	796KHz	3.8	0.16	1.6	1.4
MF1112-151K	150	20	796KHz	3.1	0.26	1.3	1.1
MF1112-221K	220	20	796KHz	2.5	0.33	1.1	1.0
MF1112-331K	330	20	796KHz	2.0	0.52	0.88	0.82
MF1112-471K	470	10	796KHz	1.6	0.66	0.75	0.72
MF1112-681K	680	10	796KHz	1.3	1.1	0.61	0.56
MF1112-102J	1000	20	252KHz	1.1	1.4	0.51	0.50
MF1112-152J	1500	30	252KHz	0.82	2.4	0.43	0.38
MF1112-222J	2200	20	252KHz	0.76	3.2	0.35	0.33
MF1112-332J	3300	30	252KHz	0.64	4.9	0.28	0.26
MF1112-472J	4700	30	252KHz	0.54	7.6	0.24	0.21
MF1112-682J	6800	30	252KHz	0.45	9.8	0.20	0.18
MF1112-103J	10000	30	79.6KHz	0.38	18	0.17	0.14
MF1112-153J	15000	50	79.6KHz	0.29	24	0.13	0.12

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

PK SERIES

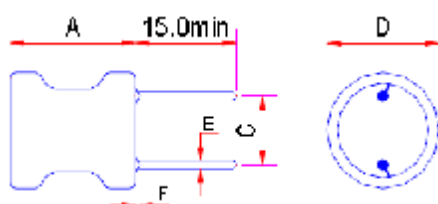
PEAKING COILS.

Applications:

- TVs and Audio equipment.
- Telecommunication devices.
- Personal computer.
- Switching Power Supply.
- Other noise filter.



Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	C	D Max.	E±0.05
PK0406	8.0	2.0±0.5	5.5	0.55
PK0608	11.0	2.5±0.5	7.5	0.65
PK0707	9.5	5.0±1.0	8.5	0.65
PK0807	9.5	5.0±1.0	10.0	0.55
PK0810	13.0	5.0±1.0	10.0	0.65

Item	A Max.	C	D Max.	E±0.05
PK1010	13.0	5.0±1.0	12.0	0.80
PK1012	15.0	6.0±1.0	12.0	0.80
PK1018	21.0	6.0±1.0	12.0	0.80
PK1213	16.0	7.50±1.0	14.0	0.80

Features :

- Low cost.
- Wide range of inductance.
- Small mounting space required.
- 0406 type with excellent characteristics for high Q.
- The other types with low DCR, high current, best for the power supply line.
- Tape packaging for auto-insertion.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20$)
Whichever lower.
- Operating temperature : -20 to 85°C .

Product Identification :

PK 0608 – 503 K – UL – TF

(1) (2) (3) (4) (5) (6)

- (1) Type: Peaking coils.
- (2) Style : Core size, **OD**=6 mm , **L**=8 mm.
- (3) Inductance: “**503**” for 50 mH.
- (4) Tolerance: “**J**”: $\pm 5\%$; “**K**”: $\pm 10\%$; “**M**”: $\pm 20\%$.
- (5) Sleeve: UL tube, Black, 125°C ; No code: NO sleeve
- (6) Taping Mode: **TF** Taping; No code: bulk

Test equipments :

- L&Q: HP 4285A or HP 4284A.
- DCR: Milli-ohm meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at 25°C .

● PK0406 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0406-1R0M-□□	1.0	100	7.96MHz	120	0.035	2000
PK0406-1R2M-□□	1.2	100	7.96 MHz	120	0.058	1950
PK0406-1R5M-□□	1.5	100	7.96 MHz	120	0.075	1900
PK0406-1R8M-□□	1.8	100	7.96 MHz	120	0.110	1800
PK0406-2R2M-□□	2.2	100	7.96 MHz	100	0.120	1750
PK0406-2R7M-□□	2.7	100	7.96 MHz	80	0.125	1680
PK0406-3R3M-□□	3.3	100	7.96 MHz	75	0.130	1500
PK0406-3R9K-□□	3.9	100	7.96 MHz	70	0.135	1450
PK0406-4R7K-□□	4.7	100	7.96 MHz	50	0.140	1320
PK0406-5R6K-□□	5.6	100	7.96 MHz	45	0.145	1230
PK0406-6R8K-□□	6.8	100	7.96 MHz	30	0.15	1150
PK0406-8R2K-□□	8.2	100	7.96 MHz	22	0.16	1100
PK0406-100K-□□	10	80	2.52 MHz	20	0.23	1000
PK0406-120K-□□	12	80	2.52 MHz	17	0.24	970
PK0406-150K-□□	15	80	2.52 MHz	16	0.25	920
PK0406-180K-□□	18	80	2.52 MHz	12	0.33	860
PK0406-220K-□□	22	80	2.52 MHz	10	0.45	800
PK0406-270K-□□	27	80	2.52 MHz	9.5	0.50	710
PK0406-330K-□□	33	80	2.52 MHz	8.7	0.70	660
PK0406-390K-□□	39	70	2.52 MHz	8.2	0.74	600
PK0406-470K-□□	47	70	2.52 MHz	7.8	0.76	550
PK0406-560K-□□	56	50	2.52 MHz	7.6	0.80	500
PK0406-680K-□□	68	50	2.52 MHz	6.8	0.90	470
PK0406-820K-□□	82	50	2.52 MHz	6.0	0.95	430
PK0406-101K-□□	100	45	796kHz	6.0	1.0	400
PK0406-121K-□□	120	45	796kHz	5.5	1.1	370
PK0406-151K-□□	150	65	796kHz	4.2	1.3	350
PK0406-181k-□□	180	65	796kHz	3.6	1.5	320
PK0406-221k-□□	220	65	796kHz	2.8	1.8	300
PK0406-271k-□□	270	50	796kHz	2.4	1.9	275
PK0406-331K-□□	330	50	796kHz	2.2	2.2	250
PK0406-391K-□□	390	50	796kHz	2.0	2.7	220
PK0406-471K-□□	470	50	796kHz	1.7	3.6	200
PK0406-561K-□□	560	50	796kHz	1.5	4.2	190
PK0406-681K-□□	680	50	796kHz	1.3	4.6	170
PK0406-821K-□□	820	50	796kHz	1.1	5.7	155
PK0406-102K-□□	1000	90	252kHz	1.0	6.7	150
PK0406-122K-□□	1200	90	252kHz	0.9	8.2	140
PK0406-152K-□□	1500	80	252kHz	0.8	13	120
PK0406-182K-□□	1800	80	252kHz	0.8	15	110
PK0406-222K-□□	2200	80	252kHz	0.8	17	100
PK0406-272K-□□	2700	80	252kHz	0.8	19	90
PK0406-332K-□□	3300	70	252kHz	0.7	26	83
PK0406-392K-□□	3900	70	252kHz	0.65	30	76
PK0406-472K-□□	4700	65	252kHz		45	70
PK0406-562K-□□	5600	65	252kHz		48	62
PK0406-682K-□□	6800	65	252kHz		56	56
PK0406-822K-□□	8200	65	252kHz		62	52
PK0406-103K-□□	10000	45	79.6kHz		72	47
PK0406-153K-□□	15000	45	79.6kHz		120	35
PK0406-223K-□□	22000	45	79.6kHz		160	24
PK0406-253K-□□	25000	45	79.6kHz		180	20



I PK0608 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0608-3R3K-□□	3.3	20	7.96MHz	0.016	3500
PK0608-4R7K-□□	4.7	20	7.96MHz	0.020	3000
PK0608-6R8K-□□	6.8	20	7.96MHz	0.022	2500
PK0608-100K-□□	10	30	2.52MHz	0.039	2000
PK0608-150K-□□	15	30	2.52MHz	0.045	1700
PK0608-220K-□□	22	30	2.52MHz	0.062	1400
PK0608-330K-□□	33	30	2.52MHz	0.10	1100
PK0608-470K-□□	47	30	2.52MHz	0.15	950
PK0608-680K-□□	68	30	2.52MHz	0.22	800
PK0608-101K-□□	100	20	796kHz	0.35	650
PK0608-151K-□□	150	20	796kHz	0.43	540
PK0608-221K-□□	220	20	796kHz	0.90	440
PK0608-331K-□□	330	20	796kHz	1.50	360
PK0608-471K-□□	470	20	796kHz	1.80	300
PK0608-681K-□□	680	20	796kHz	2.50	250
PK0608-102K-□□	1000	100	252kHz	3.20	200
PK0608-122K-□□	1200	70	252kHz	3.5	180
PK0608-152K-□□	1500	70	252kHz	4.5	170
PK0608-182K-□□	1800	70	252kHz	5.0	155
PK0608-222K-□□	2200	70	252kHz	6.8	140
PK0608-272K-□□	2700	70	252kHz	7.2	125
PK0608-332K-□□	3300	70	252kHz	10.5	115
PK0608-392K-□□	3900	70	252kHz	11.7	105
PK0608-472K-□□	4700	70	252kHz	13.6	95
PK0608-562K-□□	5600	70	252kHz	16.6	85
PK0608-682K-□□	6800	70	252kHz	19.6	80
PK0608-822K-□□	8200	70	252kHz	25.2	70
PK0608-103K-□□	10000	70	79.6kHz	29.5	65
PK0608-123K-□□	12000	50	79.6kHz	33.8	60
PK0608-153K-□□	15000	50	79.6kHz	45.4	55
PK0608-183K-□□	18000	50	79.6kHz	50.4	50
PK0608-223K-□□	22000	50	79.6kHz	80.0	45
PK0608-303K-□□	30000	50	79.6kHz	91.5	40
PK0608-333K-□□	33000	50	79.6kHz	98.5	35
PK0608-393K-□□	39000	50	79.6kHz	140	32
PK0608-473K-□□	47000	50	79.6kHz	160	30
PK0608-503K-□□	50000	50	79.6kHz	170	29
PK0608-563K-□□	56000	50	79.6kHz	250	28
PK0608-683K-□□	68000	50	79.6kHz	282	25
PK0608-823K-□□	82000	50	79.6kHz	312	23
PK0608-104K-□□	100000	30	25.2kHz	380	20
PK0608-124K-□□	120000	30	25.2kHz	430	18
PK0608-154K-□□	150000	30	25.2kHz	520	16



I PK0707 / 0807 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK0707-1R0M-□□	1.0	10	7.96MHz	70	0.006	6.6	5.0
PK0707-1R5M-□□	1.5	10	7.96MHz	56	0.008	5.4	4.3
PK0707-2R2M-□□	2.2	10	7.96MHz	45	0.011	4.0	3.7
PK0707-3R3M-□□	3.3	10	7.96MHz	36	0.018	3.6	2.9
PK0707-4R7M-□□	4.7	10	7.96MHz	29	0.022	3.1	2.6
PK0707-6R8M-□□	6.8	10	7.96MHz	24	0.028	2.5	2.3
PK0707-100K-□□	10	20	2.52MHz	19	0.043	2.1	1.9
PK0707-150K-□□	15	20	2.52MHz	15	0.056	1.7	1.6
PK0707-220K-□□	22	20	2.52MHz	12	0.086	1.4	1.3
PK0707-330K-□□	33	20	2.52MHz	9.4	0.14	1.1	1.0
PK0707-470K-□□	47	20	2.52MHz	7.6	0.17	0.96	0.94
PK0707-680K-□□	68	20	2.52MHz	6.2	0.28	0.79	0.73
PK0707-101K-□□	100	20	796KHz	5.0	0.33	0.66	0.67
PK0707-151K-□□	150	20	796KHz	4.0	0.56	0.53	0.52
PK0707-221K-□□	220	20	796KHz	3.2	0.72	0.44	0.46
PK0707-331K-□□	330	20	796KHz	2.5	1.10	0.36	0.37
PK0707-471K-□□	470	20	796KHz	2.0	1.70	0.30	0.30
PK0707-681K-□□	680	20	796KHz	1.7	2.30	0.25	0.26
PK0707-102K-□□	1000	70	252KHz	1.3	4.30	0.20	0.19
PK0707-152K-□□	1500	50	252KHz	1.3	5.00	0.17	0.16
PK0807-2R2M-□□	2.2	10	7.96MHz	60	0.011	0.55	4.0
PK0807-3R3M-□□	3.3	10	7.96MHz	38	0.013	3.8	3.4
PK0807-4R7M-□□	4.7	10	7.96MHz	30	0.017	3.7	3.0
PK0807-6R8M-□□	6.8	10	7.96MHz	24	0.023	2.8	2.6
PK0807-100K-□□	10	20	2.52MHz	19	0.031	2.5	2.2
PK0807-150K-□□	15	20	2.52MHz	15	0.042	2.0	1.9
PK0807-220K-□□	22	20	2.52MHz	12	0.070	1.6	1.5
PK0807-330K-□□	33	20	2.52MHz	10	0.092	1.3	1.2
PK0807-470K-□□	47	20	2.52MHz	8.2	0.130	1.1	1.0
PK0807-680K-□□	68	20	2.52MHz	6.6	0.160	0.91	0.97
PK0807-101K-□□	100	15	796KHz	5.4	0.230	0.75	0.81
PK0807-151K-□□	150	15	796KHz	4.3	0.400	0.61	0.61
PK0807-221K-□□	220	15	796KHz	3.5	0.530	0.50	0.53
PK0807-331K-□□	330	15	796KHz	2.8	0.780	0.41	0.44
PK0807-471K-□□	470	10	796KHz	2.3	1.0	0.34	0.39
PK0807-681K-□□	680	10	796KHz	1.9	1.5	0.28	0.32
PK0807-102K-□□	1000	20	252KHz	1.5	2.2	0.23	0.26
PK0807-152K-□□	1500	30	252KHz	1.2	3.5	0.18	0.21

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.

PK0810 TYPE

Part No.	L @1kHz (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0810-3R3M-□□	3.3	30	7.96MHz	65	0.012	5000
PK0810-3R9K-□□	3.9	30	7.96MHz	55	0.014	4600
PK0810-4R7K-□□	4.7	30	7.96MHz	45	0.016	4300
PK0810-5R6K-□□	5.6	30	7.96MHz	38	0.020	3900
PK0810-6R8K-□□	6.8	30	7.96MHz	27	0.022	3700
PK0810-8R2K-□□	8.2	30	7.96MHz	21	0.024	3500
PK0810-100K-□□	10	50	2.52MHz	17	0.025	3200
PK0810-120K-□□	12	50	2.52MHz	15	0.027	3000
PK0810-150K-□□	15	50	2.52MHz	13	0.033	2800
PK0810-180K-□□	18	50	2.52MHz	12	0.039	2600
PK0810-220K-□□	22	50	2.52MHz	11	0.047	2400
PK0810-270K-□□	27	50	2.52MHz	10	0.052	2100
PK0810-330K-□□	33	50	2.52MHz	8.5	0.075	1900
PK0810-390K-□□	39	40	2.52MHz	7.7	0.082	1700
PK0810-470K-□□	47	40	2.52MHz	6.7	0.10	1500
PK0810-560K-□□	56	40	2.52MHz	6.4	0.15	1300
PK0810-680K-□□	68	30	2.52MHz	5.8	0.18	1200
PK0810-820K-□□	82	30	2.52MHz	5.2	0.20	1100
PK0810-101K-□□	100	30	796kHz	4.4	0.20	900
PK0810-121K-□□	120	30	796kHz	4.2	0.22	800
PK0810-151K-□□	150	30	796kHz	3.7	0.24	7200
PK0810-181K-□□	180	30	796kHz	3.5	0.28	6500
PK0810-221K-□□	220	20	796kHz	3.3	0.35	600
PK0810-271K-□□	270	20	796kHz	2.9	0.40	550
PK0810-331K-□□	330	20	796kHz	2.6	0.47	500
PK0810-391K-□□	390	20	796kHz	2.4	0.68	460
PK0810-471K-□□	470	20	796kHz	2.2	0.80	420
PK0810-561K-□□	560	20	796kHz	2.0	1.0	380
PK0810-681K-□□	680	20	796kHz	1.8	1.2	350
PK0810-821K-□□	820	20	796kHz	1.7	1.5	310
PK0810-102K-□□	1000	40	252kHz	1.5	1.8	280
PK0810-122K-□□	1200	40	252kHz	1.4	2.0	250
PK0810-152K-□□	1500	40	252kHz	1.3	2.4	230
PK0810-182K-□□	1800	40	252kHz	1.1	2.8	210
PK0810-222K-□□	2200	40	252kHz	1.0	3.3	190
PK0810-272K-□□	2700	40	252kHz	0.88	5.0	170
PK0810-332K-□□	3300	40	252kHz	0.78	5.6	150
PK0810-392K-□□	3900	40	252kHz	0.72	6.2	140
PK0810-472K-□□	4700	40	252kHz	0.65	7.0	130
PK0810-562K-□□	5600	40	252kHz	0.58	9.1	120
PK0810-682K-□□	6800	40	252kHz	0.55	10	110
PK0810-822K-□□	8200	20	252kHz	0.50	15	100
PK0810-103K-□□	10000	20	79.6kHz	0.42	24	90
PK0810-473K-□□	47000	60	79.6kHz	0.20	80	40
PK0810-104K-□□	100000	20	79.6kHz	0.14	180	28



I PK1010 / 1012 series

Part No.	L @1kHz (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1010-3R3M-□□	3.3	10	7.96MHz	36	0.010	8.8	5.9
PK1010-4R7M-□□	4.7	10	7.96MHz	28	0.015	7.2	4.8
PK1010-6R8M-□□	6.8	10	7.96MHz	18	0.016	6.1	4.6
PK1010-100M-□□	10	20	2.52MHz	16	0.025	5.0	3.7
PK1010-150M-□□	15	20	2.52MHz	12	0.029	4.2	3.4
PK1010-220K-□□	22	20	2.52MHz	9.5	0.040	3.4	2.9
PK1010-330K-□□	33	30	2.52MHz	7.0	0.062	2.8	2.3
PK1010-470K-□□	47	30	2.52MHz	5.8	0.075	2.3	2.1
PK1010-680K-□□	68	20	2.52MHz	4.7	0.13	1.9	1.6
PK1010-101K-□□	100	20	796kHz	3.8	0.16	1.6	1.4
PK1010-151K-□□	150	20	796kHz	3.1	0.26	1.3	1.1
PK1010-221K-□□	220	20	796kHz	2.5	0.33	1.1	1.0
PK1010-331K-□□	330	20	796kHz	2.0	0.52	0.88	0.82
PK1010-471K-□□	470	10	796kHz	1.6	0.66	0.75	0.72
PK1010-681K-□□	680	10	796kHz	1.3	1.1	0.61	0.56
PK1010-102K-□□	1000	20	252kHz	1.1	1.4	0.51	0.50
PK1010-152K-□□	1500	30	252kHz	0.82	2.4	0.43	0.38
PK1010-222K-□□	2200	20	252kHz	0.76	3.2	0.35	0.33
PK1010-332K-□□	3300	30	252kHz	0.64	4.9	0.28	0.26
PK1010-472K-□□	4700	30	252kHz	0.54	7.6	0.24	0.21
PK1010-682K-□□	6800	30	252kHz	0.45	9.8	0.20	0.18
PK1010-103K-□□	10000	30	79.6kHz	0.38	18	0.17	0.14
PK1010-153K-□□	15000	50	79.6kHz	0.29	24	0.13	0.12
PK1012-103K-□□	10000	100	79.6kHz	0.35	12	0.18	0.17
PK1012-123K-□□	12000	100	79.6kHz	0.31	13	0.16	0.16
PK1012-153K-□□	15000	100	79.6kHz	0.28	18	0.14	0.14
PK1012-183K-□□	18000	80	79.6kHz	0.26	25	0.13	0.12
PK1012-223K-□□	22000	80	79.6kHz	0.22	30	0.12	0.11
PK1012-273K-□□	27000	80	79.6kHz	0.20	35	0.11	0.10
PK1012-333K-□□	33000	60	79.6kHz	0.19	40	0.10	0.090
PK1012-393K-□□	39000	60	79.6kHz	0.17	50	0.090	0.080
PK1012-473K-□□	47000	60	79.6kHz	0.15	50	0.080	0.075
PK1012-563K-□□	56000	40	79.6kHz	0.13	65	0.075	0.070
PK1012-683K-□□	68000	40	79.6kHz	0.12	70	0.070	0.065
PK1012-823K-□□	82000	30	79.6kHz	0.10	100	0.060	0.055
PK1012-104K-□□	100000	30	79.6kHz	0.10	135	0.055	0.045

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.



● PK1018 series

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1018-4R7K-□□	4.7	0.008	10.0	6.0
PK1018-6R8K-□□	6.8	0.011	8.0	5.5
PK1018-100K-□□	10	0.017	7.0	4.5
PK1018-150K-□□	15	0.022	5.5	4.0
PK1018-220K-□□	22	0.026	4.5	3.7
PK1018-330K-□□	33	0.032	3.8	3.3
PK1018-470K-□□	47	0.035	3.2	3.0
PK1018-680K-□□	68	0.047	2.6	2.6
PK1018-101K-□□	100	0.090	2.2	2.0
PK1018-151K-□□	150	0.129	1.8	1.6
PK1018-221K-□□	220	0.162	1.5	1.5
PK1018-331K-□□	330	0.212	1.2	1.2
PK1018-471K-□□	470	0.380	1.00	1.0
PK1018-681K-□□	680	0.548	0.84	0.84
PK1018-102K-□□	1000	0.844	0.66	0.66
PK1018-152K-□□	1500	1.18	0.55	0.55
PK1018-222K-□□	2200	2.00	0.46	0.44
PK1018-332K-□□	3300	2.53	0.38	0.38
PK1018-472K-□□	4700	3.19	0.32	0.32
PK1018-682K-□□	6800	5.69	0.26	0.25
PK1018-103K-□□	10000	7.30	0.22	0.22
PK1018-153K-□□	15000	10.5	0.18	0.18
PK1018-223K-□□	22000	21.8	0.14	0.13
PK1018-333K-□□	33000	25.7	0.12	0.12
PK1018-473K-□□	47000	36.1	0.10	0.10
PK1018-683K-□□	68000	57.3	0.08	0.08
PK1018-104K-□□	100000	89.7	0.06	0.06

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.

● PK1213 series

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1213-100M-□□	10	0.023	8.0	5.1
PK1213-150K-□□	15	0.028	6.5	4.5
PK1213-220K-□□	22	0.035	5.5	4.2
PK1213-330K-□□	33	0.043	4.5	3.7
PK1213-470K-□□	47	0.052	3.6	3.4
PK1213-680K-□□	68	0.068	3.1	3.0
PK1213-101K-□□	100	0.097	2.6	2.5
PK1213-151K-□□	150	0.14	2.1	2.1
PK1213-221K-□□	220	0.20	1.7	1.7
PK1213-331K-□□	330	0.30	1.4	1.4
PK1213-471K-□□	470	0.43	1.10	1.1
PK1213-681K-□□	680	0.61	0.95	0.99
PK1213-102K-□□	1000	1.00	0.78	0.78
PK1213-152K-□□	1500	1.30	0.64	0.68
PK1213-222K-□□	2200	2.00	0.53	0.55
PK1213-332K-□□	3300	3.10	0.43	0.44
PK1213-472K-□□	4700	4.40	0.36	0.37
PK1213-682K-□□	6800	6.50	0.30	0.30
PK1213-103K-□□	10000	10.0	0.24	0.24

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

PKB SERIES

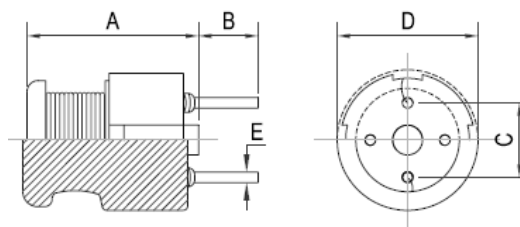
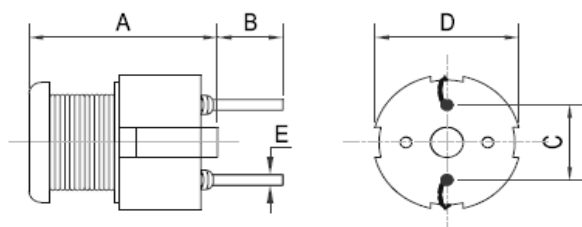
PEAKING COILS.

Applications:

- TVs and Audio equipment.
- Telecommunication devices..
- Buzzers and Alarm system.
- Switching Power Supply.
- System requiring Band and High Q.
- Other noise filter.



Shape and Dimension (unit:mm)



Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKB0804	8.9	4.0	5.0	9.5	0.70
PKB0865	10.8	4.0	5.0	9.5	0.70
PKB0809	13.5	4.0	5.0	9.5	0.70

Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKB0804	9.5	4.0	5.0	10.5	0.70
PKB0865	11.5	4.0	5.0	10.5	0.70
PKB0809	14.5	4.0	5.0	10.5	0.70

Features :

- Ideal as choke coil for noise filtering and DC/DC convertor applications.
- Small size radial lead type.
- With a special base for uniformed lead wire.
- High inductance with high rated current.
- Available with or without heat shrink tube.
- Tape packaging for auto-insertion.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20$) Whichever lower.
- Operating temperature : -20 to 85°C .

Product Identification :

PK B 0865 - 221 K - UL

(1) (2) (3) (4) (5) (6)

- (1) Type: Peaking coils.
- (2) Base : K8IN
- (3) Style: core size, OD=8.0mm; L=6.5mm.
- (4) Inductance : 221 for 220uH
- (5) Inductance tolerance : J: $\pm 5\%$ K: $\pm 10\%$, M: $\pm 20\%$
- (6) Sleeve: UL tube, Black, 125°C ; No code: no sleeve

Test equipment :

- L & Q: HP4285A (Freq.>75kHz).
- L & Q: HP4284A (Freq.<75kHz).
- DCR: Milli-ohm meter.
- SRF : HM9461 L-SRF meter or equivalent.
- Electrical specifications at 25°C .



I PKB0804 series

Part No.	L (μ H)	Q Min.	L&Q Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PKB0804-101K-□□	100	60	0.796	5.5	2.0	200
PKB0804-121K-□□	120	60	0.796	5.5	3.0	200
PKB0804-151K-□□	150	60	0.796	5.0	3.0	200
PKB0804-181K-□□	180	60	0.796	4.7	3.0	200
PKB0804-221K-□□	220	60	0.796	4.5	3.0	150
PKB0804-271K-□□	270	60	0.796	4.1	3.0	150
PKB0804-331K-□□	330	60	0.796	3.8	4.0	150
PKB0804-391K-□□	390	60	0.796	3.5	4.0	100
PKB0804-471K-□□	470	60	0.796	2.9	5.0	100
PKB0804-561K-□□	560	60	0.796	2.6	6.0	100
PKB0804-681K-□□	680	60	0.796	2.4	6.0	100
PKB0804-821K-□□	820	60	0.796	2.3	7.0	50
PKB0804-102K-□□	1000	80	0.252	2.1	9.0	50
PKB0804-122K-□□	1200	80	0.252	1.9	9.0	50
PKB0804-152K-□□	1500	80	0.252	1.8	11.0	50
PKB0804-182K-□□	1800	80	0.252	1.6	12.0	50
PKB0804-222K-□□	2200	80	0.252	1.4	14.0	50
PKB0804-272K-□□	2700	80	0.252	1.2	15.0	50
PKB0804-332K-□□	3300	80	0.252	0.9	25.0	40
PKB0804-392K-□□	3900	80	0.252	0.9	30.0	40
PKB0804-472K-□□	4700	80	0.252	0.8	32.0	40
PKB0804-562K-□□	5600	80	0.252	0.7	36.0	30
PKB0804-682K-□□	6800	80	0.252	0.7	40.0	30
PKB0804-822K-□□	8200	80	0.252	0.6	45.0	30
PKB0804-103K-□□	10000	60	0.0796	0.6	55.0	20
PKB0804-123K-□□	12000	60	0.0796	0.5	65.0	20
PKB0804-153K-□□	15000	60	0.0796	0.5	80.0	20

● PKB0865 TYPE

Part No.	L (μ H)	Q Min.	L&Q Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (A) Max.
PKB0865-1R0M-□□	1.0	20	7.96	0.021	8.60
PKB0865-1R5M-□□	1.5	20	7.96	0.023	7.60
PKB0865-2R2M-□□	2.2	20	7.96	0.026	6.30
PKB0865-3R3M-□□	3.3	20	7.96	0.030	5.40
PKB0865-4R7M-□□	4.7	20	7.96	0.034	4.60
PKB0865-6R8M-□□	6.8	20	7.96	0.037	4.10
PKB0865-100K-□□	10	50	2.52	0.044	3.40
PKB0865-120K-□□	12	50	2.52	0.049	3.10
PKB0865-150K-□□	15	50	2.52	0.054	2.90
PKB0865-180K-□□	18	40	2.52	0.058	2.66

Part No.	L (μ H)	Q Min.	L&Q Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (A) Max.
PKB0865-220K-□□	22	40	2.52	0.065	2.40
PKB0865-270K-□□	27	40	2.52	0.072	2.22
PKB0865-330K-□□	33	30	2.52	0.080	2.05
PKB0865-390K-□□	39	30	2.52	0.091	1.85
PKB0865-470K-□□	47	30	2.52	0.101	1.77
PKB0865-560K-□□	56	30	2.52	0.145	1.48
PKB0865-680K-□□	68	30	2.52	0.161	1.36
PKB0865-820K-□□	82	30	2.52	0.174	1.30
PKB0865-101K-□□	100	20	0.796	0.221	1.13
PKB0865-121K-□□	120	20	0.796	0.254	1.02
PKB0865-151K-□□	150	20	0.796	0.360	0.92
PKB0865-181K-□□	180	20	0.796	0.451	0.80
PKB0865-221K-□□	220	20	0.796	0.509	0.73
PKB0865-271K-□□	270	20	0.796	0.579	0.67
PKB0865-331K-□□	330	20	0.796	0.657	0.62
PKB0865-391K-□□	390	20	0.796	0.742	0.57
PKB0865-471K-□□	470	20	0.796	1.100	0.52

I PKB0809 series

Part No.	L (μ H)	Q Min.	L&Q Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PKB0809-101K-□□	100	70	0.796	4.5	0.52	800
PKB0809-121K-□□	120	70	0.796	3.8	0.52	740
PKB0809-151K-□□	150	70	0.796	3.5	0.62	660
PKB0809-181K-□□	180	70	0.796	3.0	0.82	600
PKB0809-221K-□□	220	70	0.796	2.9	1.0	550
PKB0809-271K-□□	270	70	0.796	2.6	1.2	490
PKB0809-331K-□□	330	70	0.796	2.3	1.5	440
PKB0809-391K-□□	390	70	0.796	2.0	1.8	390
PKB0809-471K-□□	470	70	0.796	1.8	2.0	350
PKB0809-561K-□□	560	70	0.796	1.7	3.0	320
PKB0809-681K-□□	680	70	0.796	1.6	3.0	290
PKB0809-821K-□□	820	70	0.796	1.4	3.3	260
PKB0809-102K-□□	1000	90	0.252	1.3	3.3	220
PKB0809-122K-□□	1200	90	0.252	1.2	3.6	200
PKB0809-152K-□□	1500	90	0.252	1.1	3.9	180
PKB0809-182K-□□	1800	90	0.252	1.0	5.6	160
PKB0809-222K-□□	2200	90	0.252	0.9	6.2	140
PKB0809-272K-□□	2700	90	0.252	0.8	7.5	120
PKB0809-332K-□□	3300	90	0.252	0.7	8.2	110
PKB0809-392K-□□	3900	90	0.252	0.7	9.1	100

Part No.	L (μ H)	Q Min.	L&Q Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PKB0809-472K-□□	4700	90	0.252	0.6	11.0	100
PKB0809-562K-□□	5600	80	0.252	0.6	15.0	90
PKB0809-682K-□□	6800	70	0.252	0.5	20.	80
PKB0809-822K-□□	8200	60	0.252	0.5	22.0	70
PKB0809-103K-□□	10000	80	0.0796	0.4	25.0	65
PKB0809-123K-□□	12000	80	0.0796	0.4	27.0	60
PKB0809-153K-□□	15000	80	0.0796	0.3	33.0	56
PKB0809-183K-□□	18000	80	0.0796	0.3	36.0	52
PKB0809-223K-□□	22000	80	0.0796	0.3	42.0	48
PKB0809-273K-□□	27000	80	0.076	0.3	59.0	45
PKB0809-333K-□□	33000	80	0.0796	0.2	65.0	42
PKB0809-363K-□□	36000	80	0.0796	0.2	70.0	40

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

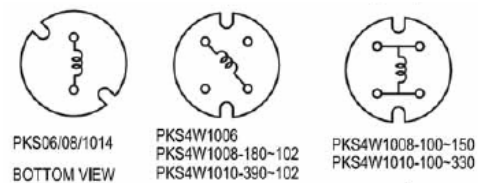
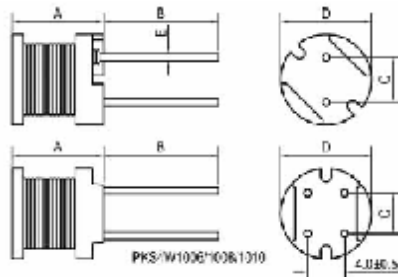
PKS SERIES

PEAKING COILS.

Applications :

- Television, VCD, DVD.
- Personal computer.
- Switching Power Supplies.
- Telecommunication devices.

Shape and Dimension(unit:mm):



Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKS0605	5.2	4.0	4.0	6.5	0.50
PKS0606	6.5	4.0	4.0	6.5	0.50
PKS0805	5.5	5.0	5.0	8.3	0.65
PKS0807	7.5	5.0	5.0	8.3	0.65
PKS0809	9.5	5.0	5.0	8.3	0.65

Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKS4W1006	6.5	3.5	5.0	10.5	0.80
PKS4W1008	8.5	3.5	5.0	10.5	0.80
PKS4W1010	10.5	3.5	5.0	10.5	0.80
PKS1014	14.4	5.0	5.0	10.5	0.80

Features :

- Low cost power inductor.
- Low DC Resistance and high current.
- Best for the power supply line.
- Also have sleeve(UL tube) wrapped to protect the winding.
- Except PKS4W,tape packaging for auto-insertion.

Characteristics:

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20$)
Whichever lower.
- Operating temperature : -20 to 85°C .

Product Identification :

PKS 0807 - 101 K - TF

(1) (2) (3) (4) (5)

- (1) Type: Peaking coils.
- (2) Style: Core size, OD=8.3mm max, Ht=7.5mm max.
- (3) Inductance: 101 for 100uH.
- (4) Inductance tolerance: K: $\pm 10\%$, M: $\pm 20\%$.
- (5) Packing: "TF": Tape; No code: Bulk.

Test equipment:

- L : HP4284A or HP4285A LCR meter.
- DCR: Millil-ohm meter.
- Electrical specifications at 25°C .



I PKS 0605 / 0606 / 0805 / 0807 / 0809 series

Part No.	L (uH)	DCR(Ω)Max.					Rated Current (A) Max.				
		PKS 0605	PKS 0606	PKS 0805	PKS 0807	PKS 0809	PKS 0605	PKS 0606	PKS 0805	PKS 0807	PKS 0809
100M	10			0.07	0.05	0.04			2.50	2.90	2.60
120M	12			0.08	0.06	0.04			2.40	2.50	2.60
150M	15			0.09	0.07	0.05			2.10	2.20	2.10
180M	18			0.10	0.08	0.05			2.00	1.90	2.00
220K	22	0.18	0.11	0.12	0.09	0.06	0.90	1.27	1.70	1.80	1.70
270K	27	0.21	0.14	0.14	0.11	0.06	0.81	1.14	1.60	1.70	1.60
330K	33	0.27	0.17	0.17	0.13	0.07	0.74	1.03	1.40	1.50	1.40
390K	39	0.29	0.19	0.21	0.14	0.08	0.68	0.95	1.30	1.30	1.40
470K	47	0.34	0.23	0.24	0.15	0.10	0.62	0.87	1.20	1.30	1.30
560K	56	0.42	0.26	0.31	0.18	0.11	0.57	0.80	1.10	1.20	1.20
680K	68	0.48	0.28	0.34	0.20	0.14	0.51	0.72	1.00	1.10	1.10
820K	82	0.55	0.39	0.40	0.24	0.16	0.47	0.66	0.93	1.00	1.00
101K	100	0.68	0.43	0.52	0.28	0.19	0.42	0.59	0.81	0.89	0.90
121K	120	0.77	0.54	0.59	0.36	0.22	0.39	0.54	0.76	0.81	0.82
151K	150	0.95	0.64	0.71	0.42	0.27	0.35	0.48	0.67	0.72	0.74
181K	180	1.15	0.74	0.89	0.57	0.31	0.32	0.44	0.62	0.66	0.71
221K	220	1.30	0.96	1.04	0.63	0.38	0.29	0.40	0.54	0.57	0.64
271K	270	1.55	1.12	1.28	0.88	0.53	0.26	0.36	0.49	0.51	0.57
331K	330	2.18	1.48	1.60	1.05	0.61	0.23	0.33	0.44	0.46	0.51
391K	390	2.47	1.66	1.67	1.17	0.69	0.21	0.30	0.41	0.44	0.48
471K	470	2.92	1.91	2.55	1.34	0.89	0.20	0.28	0.38	0.41	0.43
561K	560	3.97	2.31	2.83	1.72	1.01	0.18	0.25	0.35	0.36	0.40
681K	680	4.57	2.67	3.25	1.96	1.18	0.16	0.23	0.32	0.33	0.35
821K	820	5.28	3.10	3.82	2.56	1.57	0.15	0.21	0.31	0.30	0.32
102K	1000	7.06	4.45	5.28	2.94	1.84	0.13	0.19	0.25	0.27	0.30
122K	1200			6.03	4.04	2.10			0.23	0.24	0.27
152K	1500			7.15	4.70	2.80			0.21	0.22	0.23
182K	1800			8.26	5.05	3.21			0.20	0.20	0.21
222K	2200			11.1	6.25	4.21			0.18	0.18	0.19
272K	2700			13.1	8.72	4.94			0.16	0.16	0.17
332K	3300			15.9	10.6	6.16			0.14	0.15	0.15
392K	3900			18.0	14.2	6.84			0.13	0.14	0.14
472K	4700			23.9	16.7	7.89			0.12	0.12	0.13
562K	5600			26.8	18.7	11.5			0.11	0.11	0.12
682K	6800			36.0	21.8	13.2			0.098	0.10	0.11
822K	8200			46.5	28.7	15.2			0.088	0.093	0.10
103K	10000			55.7	33.0	22.0			0.081	0.084	0.089
123K	12000					25.0					0.073
153K	15000					29.1					0.068
183K	18000					38.9					0.066
223K	22000					44.9					0.059
273K	27000					55.7					0.052
333K	33000					64.2					0.048
393K	39000					74.2					0.042
473K	47000					96.4					0.038

NOTE : Measuring Frequency: 10uH~82uH @ 2.52MHz 0.25V , 100uH~47mH @ 1kHz 0.5V



I PKS4W1006 / 1008 / 1010 / PKS1014 series

Part No.	L (uH)	DCR(Ω)Max.				Rated Current (A) Max.			
		PKS4W 1006	PKS4W 1008	PKS4W 1010	PKS 1014	PKS4W 1006	PKS4W 1008	PKS4W 1010	PKS 1014
6R3M	6.3			0.026					4.30
7R5M	7.5			0.029					4.20
100M	10	0.040	0.027	0.022	0.033	3.60	4.50	5.30	4.00
120M	12	0.044	0.031	0.023	0.035	3.30	4.10	4.90	3.90
150M	15	0.058	0.035	0.026	0.039	2.90	3.70	4.40	3.70
180M	18	0.064	0.049	0.033	0.047	2.70	3.40	4.00	3.50
220M	22	0.088	0.055	0.037	0.051	2.40	3.10	3.60	3.30
270M	27	0.100	0.062	0.048	0.057	2.20	2.80	3.30	3.10
330K	33	0.110	0.079	0.055	0.064	2.00	2.50	2.90	2.90
390K	39	0.140	0.087	0.073	0.074	1.80	2.30	2.70	2.70
470K	47	0.160	0.099	0.083	0.083	1.70	2.10	2.50	2.50
560K	56	0.190	0.130	0.092	0.104	1.50	1.90	2.30	2.30
680K	68	0.220	0.140	0.120	0.117	1.40	1.70	2.10	2.10
820K	82	0.290	0.160	0.140	0.130	1.30	1.60	1.90	1.90
101K	100	0.320	0.210	0.160	0.143	1.30	1.40	1.70	1.70
121K	120	0.380	0.240	0.200	0.195	1.20	1.30	1.50	1.50
151K	150	0.500	0.320	0.230	0.221	1.00	1.20	1.40	1.40
181K	180	0.560	0.350	0.310	0.260	0.81	1.10	1.30	1.30
221K	220	0.780	0.450	0.340	0.350	0.76	0.96	1.10	1.20
271K	270	0.920	0.610	0.400	0.390	0.69	0.87	1.00	1.10
331K	330	1.10	0.690	0.520	0.520	0.62	0.79	0.93	1.00
391K	390	1.30	0.780	0.650	0.570	0.57	0.72	0.86	0.92
471K	470	1.50	1.00	0.710	0.650	0.52	0.66	0.78	0.84
561K	560	1.90	1.20	1.00	0.790	0.48	0.60	0.71	0.75
681K	680	2.20	1.40	1.10	0.960	0.43	0.55	0.65	0.69
821K	820	2.60	1.80	1.30	1.22	0.40	0.50	0.59	0.62
102K	1000	3.20	2.10	1.70	1.60	0.36	0.45	0.53	0.52
122K	1200				2.20				0.46
152K	1500				2.50				0.41
182K	1800				2.90				0.36
222K	2200				3.20				0.32
272K	2700				3.70				0.29
332K	3300				5.00				0.27
392K	3900				5.60				0.25
472K	4700				7.40				0.23
562K	5600				8.20				0.21
682K	6800				11.9				0.19
822K	8200				14.0				0.17
103K	10000				16.0				0.16
123K	12000				21.0				0.15
153K	15000				24.0				0.14
183K	18000				27.0				0.13
223K	22000				34.0				0.12
273K	27000				39.0				0.11
333K	33000				51.0				0.10
393K	39000				58.0				0.09

NOTE : L Measuring Frequency: 10uH~82uH @ 2.52MHz 0.25V , 100uH~39mH @1kHz 0.25V

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



VC SERIES

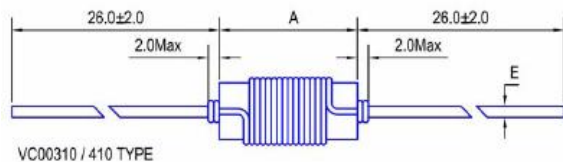
VARNISH COATED.

Applications :

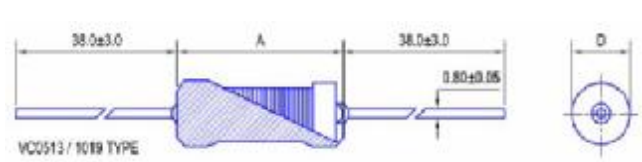
- TVs and Audio equipment.
- Telecommunication devices.
- RF filters.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	D Max.	E±0.05
VC0310	10.5	4.5	0.65
VC0410	10.5	5.5	0.80



Item	A Max.	D Max.	E±0.05
VC0513	16.5	6.6	0.80
VC1019	23.0	11.5	0.80

Features :

- Low cost power inductor.
- High current choke.
- Wide inductance range.
- High saturation ferrite core.
- Coated with varnish or covered with UL shrink tube.
- Tape and reel packaging for automatic insertion.
- RoHS compliant.

Product Identification :

VC 0410 - 1R0 K - UL - T5

(1) (2) (3) (4) (5) (6)

- (1) Series: **Varnish Coated**.
- (2) Style: according to core size.
- (3) Inductance: **1R0** for **1.0uH**.
- (4) Inductance tolerance: **M**: ± 20%.

Characteristics :

- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.
 $\Delta T = 40^{\circ}\text{C} \text{ (Ta} = 20^{\circ}\text{C)}$
- Operating temperature : -25°C to 125 °C.

Test equipments :

- L test by Wayne Kerr 3260B LCR meter with Wayne Kerr 3265B Bias Current Source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25 °C.



I VC0310 / 0410 series

Part No.	L (uH)	Q Min.	L / Q TestFreq MHz	SRF (MHz) Min.	DCR (Ω) Max.	Temperature Rise Current (mA)Max.	Core material
VC0310-1R0M	1.0	40	25.2	160	0.017	1800	Ferrite
VC0310-2R2K	2.2	20	7.96	150	0.025	1600	Ferrite
VC0310-4R7K	4.7	25	7.96	135	0.090	1400	Ferrite
VC0310-100K	10	20	7.96	50	0.220	1200	Ferrite
VC0410-R15M	0.15	70	25.2	480	0.018	1850	Ceramic
VC0410-R18M	0.18	70	25.2	450	0.022	1800	Ceramic
VC0410-R22M	0.22	70	25.2	400	0.025	1740	Ceramic
VC0410-R27M	0.27	70	25.2	380	0.029	1680	Ceramic
VC0410-R33M	0.33	70	25.2	300	0.032	1610	Ceramic
VC0410-R39M	0.39	70	25.2	280	0.035	1540	Ceramic
VC0410-R47M	0.47	70	25.2	260	0.039	1430	Ceramic
VC0410-R56M	0.56	70	25.2	210	0.049	1320	Ceramic
VC0410-R68M	0.68	70	25.2	190	0.078	1200	Ceramic
VC0410-R82M	0.82	70	25.2	180	0.090	1130	Ceramic
VC0410-1R0M	1.0	70	25.2	165	0.105	1020	Ceramic
VC0410-1R2K	1.2	55	79.6	150	0.063	1580	Ferrite
VC0410-1R5K	1.5	55	79.6	135	0.071	1500	Ferrite
VC0410-1R8K	1.8	55	79.6	125	0.078	1450	Ferrite
VC0410-2R2K	2.2	55	79.6	115	0.088	1380	Ferrite
VC0410-2R7K	2.7	55	79.6	105	0.098	1320	Ferrite
VC0410-3R3K	3.3	60	79.6	90	0.205	870	Ferrite
VC0410-3R9K	3.9	60	79.6	85	0.225	840	Ferrite
VC0410-4R7K	4.7	60	79.6	80	0.25	800	Ferrite
VC0410-5R6K	5.6	60	79.6	70	0.28	750	Ferrite
VC0410-6R8K	6.8	60	79.6	65	0.31	710	Ferrite
VC0410-8R2K	8.2	55	79.6	60	0.35	680	Ferrite
VC0410-100K	10	55	79.6	40	0.39	640	Ferrite
VC0410-120K	12	65	25.2	40	0.67	450	Ferrite
VC0410-150K	15	65	25.2	40	0.76	430	Ferrite
VC0410-180K	18	70	25.2	36	0.85	410	Ferrite
VC0410-220K	22	70	25.2	33	0.96	390	Ferrite
VC0410-270K	27	70	25.2	31	1.10	360	Ferrite
VC0410-330K	33	65	25.2	29	1.24	345	Ferrite
VC0410-390K	39	65	25.2	26	1.37	330	Ferrite
VC0410-470K	47	60	25.2	23	1.65	315	Ferrite
VC0410-560K	56	55	25.2	20	1.95	300	Ferrite



I VC0513 series

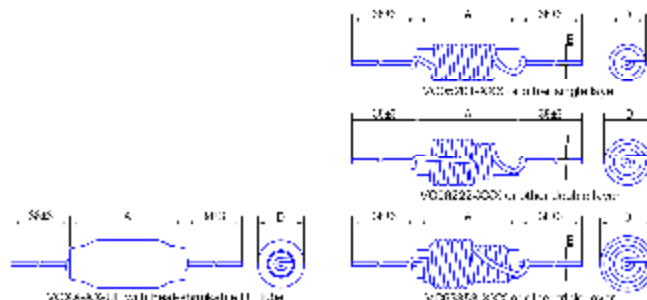
Part No.	L @1kHz (uH)	DCR (Ω) Max.	Temperature Rise Current (A) Max.
VC0513-3R9K-□□	3.9	0.019	1.28
VC0513-4R7K-□□	4.7	0.022	1.28
VC0513-5R6K-□□	5.6	0.024	1.28
VC0513-6R8K-□□	6.8	0.026	1.28
VC0513-8R2K-□□	8.2	0.028	1.28
VC0513-100K-□□	10	0.033	1.28
VC0513-120K-□□	12	0.037	1.28
VC0513-150K-□□	15	0.040	1.28
VC0513-180K-□□	18	0.044	1.28
VC0513-220K-□□	22	0.050	1.28
VC0513-270K-□□	27	0.058	1.28
VC0513-330K-□□	33	0.075	1.008
VC0513-390K-□□	39	0.094	0.804
VC0513-470K-□□	47	0.109	0.804
VC0513-560K-□□	56	0.140	0.804
VC0513-680K-□□	68	0.145	0.804
VC0513-820K-□□	82	0.152	0.804
VC0513-101K-□□	100	0.208	0.632
VC0513-121K-□□	120	0.283	0.508
VC0513-151K-□□	150	0.340	0.508
VC0513-181K-□□	180	0.362	0.508
VC0513-221K-□□	220	0.430	0.508
VC0513-271K-□□	270	0.557	0.400
VC0513-331K-□□	330	0.665	0.400
VC0513-391K-□□	390	0.772	0.400
VC0513-471K-□□	470	1.15	0.315
VC0513-561K-□□	560	1.27	0.315
VC0513-681K-□□	680	1.61	0.250
VC0513-821K-□□	820	1.96	0.200
VC0513-102K-□□	1000	2.30	0.200
VC0513-122K-□□	1200	2.65	0.200
VC0513-152K-□□	1500	3.45	0.158
VC0513-182K-□□	1800	4.03	0.158
VC0513-222K-□□	2200	4.48	0.158
VC0513-272K-□□	2700	5.90	0.125
VC0513-332K-□□	3300	6.56	0.125
VC0513-392K-□□	3900	8.63	0.100
VC0513-472K-□□	4700	10.5	0.100
VC0513-562K-□□	5600	13.9	0.082
VC0513-682K-□□	6800	16.3	0.082
VC0513-822K-□□	8200	20.8	0.065
VC0513-103K-□□	10000	26.4	0.050
VC0513-123K-□□	12000	29.2	0.050
VC0513-153K-□□	15000	42.5	0.039
VC0513-183K-□□	18000	48.3	0.031



I VC1019 series

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Temperature Rise Current (A)Max.
VC1019-3R9K-UL	3.9	0.007	4.0
VC1019-4R7K-UL	4.7	0.008	4.0
VC1019-6R8K-UL	6.8	0.011	4.0
VC1019-100K-UL	10	0.017	4.0
VC1019-150K-UL	15	0.022	4.0
VC1019-220K-UL	22	0.026	4.0
VC1019-270K-UL	27	0.027	4.0
VC1019-330K-UL	33	0.032	4.0
VC1019-390K-UL	39	0.033	4.0
VC1019-470K-UL	47	0.035	4.0
VC1019-560K-UL	56	0.037	3.2
VC1019-680K-UL	68	0.047	2.5
VC1019-820K-UL	82	0.060	2.0
VC1019-101K-UL	100	0.090	1.6
VC1019-121K-UL	120	0.113	1.6
VC1019-151K-UL	150	0.129	1.6
VC1019-181K-UL	180	0.150	1.6
VC1019-221K-UL	220	0.162	1.6
VC1019-271K-UL	270	0.208	1.6
VC1019-331K-UL	330	0.212	1.6
VC1019-391K-UL	390	0.281	1.6
VC1019-471K-UL	470	0.380	1.2
VC1019-561K-UL	560	0.420	1.0
VC1019-681K-UL	680	0.548	1.0
VC1019-821K-UL	820	0.655	0.8
VC1019-102K-UL	1000	0.844	0.8
VC1019-122K-UL	1200	1.04	0.6
VC1019-152K-UL	1500	1.18	0.6
VC1019-182K-UL	1800	1.56	0.6
VC1019-222K-UL	2200	2.00	0.5
VC1019-272K-UL	2700	2.06	0.4
VC1019-332K-UL	3300	2.53	0.4
VC1019-392K-UL	3900	2.75	0.4
VC1019-472K-UL	4700	3.19	0.4
VC1019-562K-UL	5600	3.92	0.315
VC1019-682K-UL	6800	5.69	0.250
VC1019-822K-UL	8200	6.32	0.250
VC1019-103K-UL	10000	7.30	0.250
VC1019-153K-UL	15000	10.5	0.200
VC1019-223K-UL	22000	21.8	0.125
VC1019-333K-UL	33000	25.7	0.125
VC1019-473K-UL	47000	36.1	0.100
VC1019-683K-UL	68000	57.3	0.082
VC1019-104K-UL	100000	89.7	0.065

VC SPECIAL DESIGN



Electrical Specification					Dimensions (Unit: mm)		
Part No.	L (uH) @1kHz ± 10%	I _{rms} (A) Max.	DCR (Ω) Max.	SRF (MHz) Min.	A Max.	D Max.	E ±0.05
VC05153-500K-1A-UL	50	1.0	0.120	4.0	20.32	12.06	0.80
VC05154-101K-1A-UL	100	1.0	0.180	2.0	20.32	12.06	0.80
VC06223-251K-1A-UL	250	1.0	0.300	1.0	26.67	12.06	0.80
VC06225-501K-1A-UL	500	1.0	0.500	0.8	26.67	13.97	0.80
VC06256-102K-1A-UL	1000	1.0	0.600	0.5	29.84	13.97	0.80
VC05152-270K-2A-UL	27	2.0	0.085	5.5	20.32	12.70	0.80
VC05153-500K-2A-UL	50	2.0	0.100	4.0	20.32	12.70	0.80
VC06223-101K-2A-UL	100	2.0	0.150	2.0	23.37	12.70	0.80
VC05205-251K-2A-UL	250	2.0	0.250	1.0	23.37	15.24	0.80
VC06226-501K-2A-UL	500	2.0	0.450	0.5	26.67	19.05	0.80
VC05152-5R0K-3A-UL	5	3.0	0.025	25	20.32	12.06	0.80
VC05202-100K-3A-UL	10	3.0	0.035	20	23.37	12.06	0.80
VC05153-270K-3A-UL	27	3.0	0.050	6.0	20.32	13.97	0.80
VC05203-500K-3A-UL	50	3.0	0.065	4.0	23.37	13.97	0.80
VC06253-101K-3A-UL	100	3.0	0.075	2.0	29.84	13.97	0.80
VC06221-5R0K-5A-UL	5	5.0	0.015	50	26.67	12.06	1.00
VC05202-100K-5A-UL	10	5.0	0.025	40	26.67	12.06	1.00
VC06222-270K-5A-UL	27	5.0	0.035	7.0	26.67	17.78	1.00
VC06223-500K-5A-UL	50	5.0	0.050	2.0	26.67	17.78	1.00
VC08303-101K-5A-UL	100	5.0	0.065	1.0	33.02	17.78	1.00
VC50201-100K	10	3.0	0.060		22.00	8.00	0.80
VC63351-400K	40	3.0	0.082		38.00	8.00	0.80
VC63352-680K	68	5.0	0.054		38.00	14.50	1.00
VC63352-101K	100	2.0	0.216		38.00	10.00	0.80
VC63353-121K	120	3.5	0.080		38.00	13.00	1.00
VC63353-251K	250	2.5	0.170		38.00	11.50	0.80
VC63353-501K	500	2.0	0.260		38.00	14.50	0.80
VC63353-102K	1,000	1.0	0.550		38.00	13.00	0.80

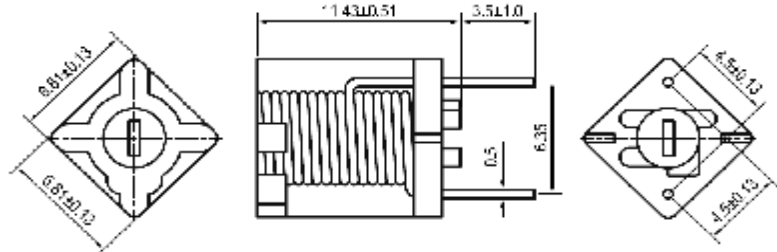
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



MD SERIES

VARIABLE MOLDED INDUCTORS

Shape and Dimensions (Dimensions are in mm) :



Features :

- Variable inductors for RF stage.
- High stability.
- Available core materials: Carbonyl; Ferrites; Aluminum; Brass.
- Some products can be shielded with different kinds of metallic shield..

Characteristics :

- Inductance ranges: 0.01uH ~ 1.5uH.
- Rated frequency : 10MHz ~ 500MHz.
- When use of a ferrite or carbonyl core, the inductance min. is measured with core 1/2 way out top of bobbin.
- When use of aluminum or brass core, the inductance max. is measured with core 1/2 way out top of bobbin.
- Operating temperature : -40 °C to 85 °C .

Product Identification :

MD - 0712 U - 7.5T - C - J

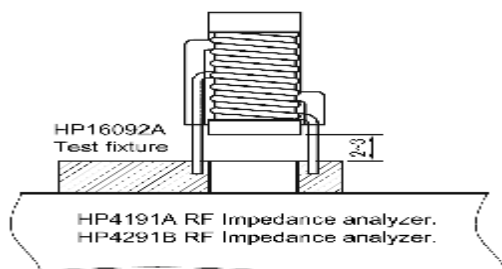
(1) (2) (3) (4) (5) (6)

- (1) Type: **Molded** coil.
- (2) Style: **07** indicate width; **12** indicate height.
- (3) **S** indicates Shielded; **U** indicate Unshielded.
If **X. Y. A** ..., indicating other shape.
- (4) No. of turns: **7.5 T**. Turns are distinguished by color code shown on page 1.1.
- (5) "**C**" is Close wound; "**S**" is Space wound .
- (6) Core material : "**J**" is Carbonyl ; "**FR**" is Ferrite; "**AL**" is Aluminum; "**BR**" is Brass. "**AR**" is Air.

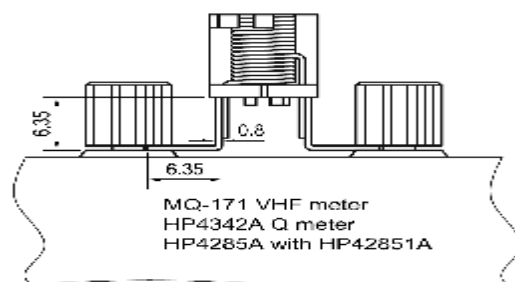
Applications :

- ANT, R.F. & OSC. Coils.
- FM radio.
- TV transceiver.

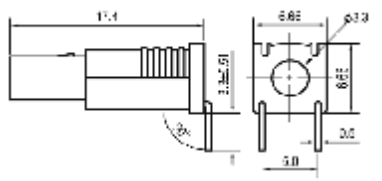
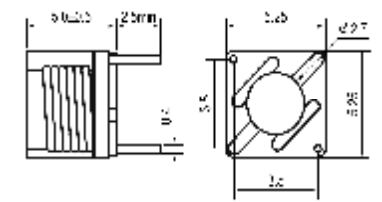
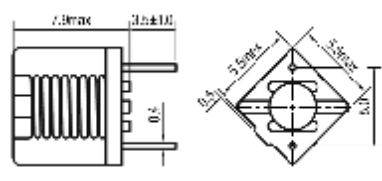
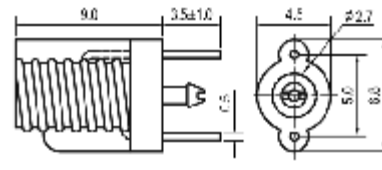
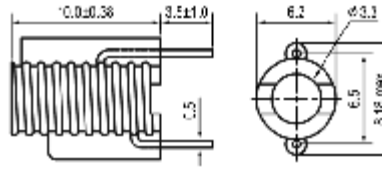
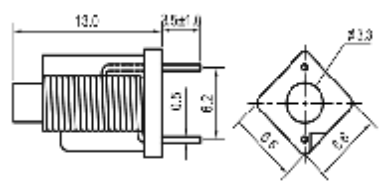
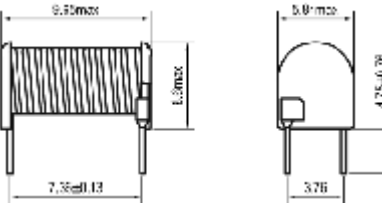
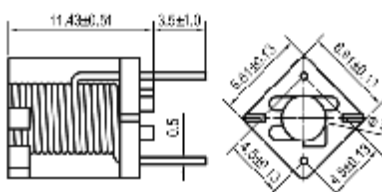
Test method and equipments :



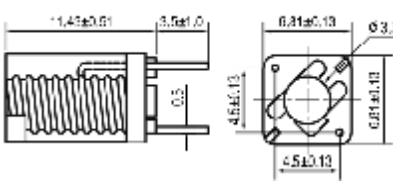
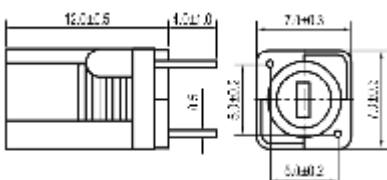
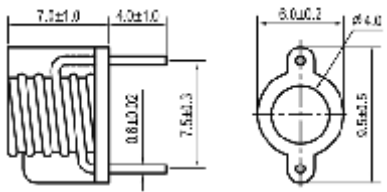
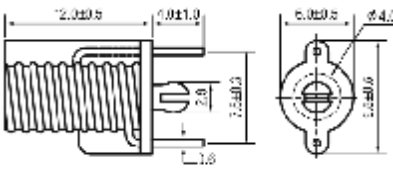
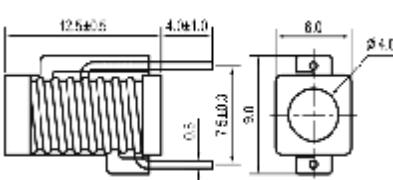
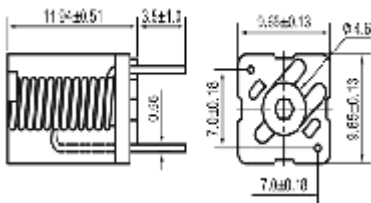
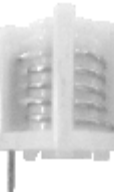
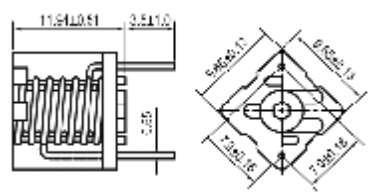
Method 2: For MD-0505/ 0507 /
0812 / 0813.....and all other type.



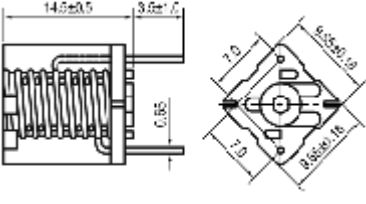
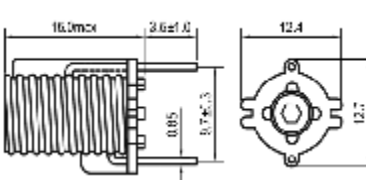
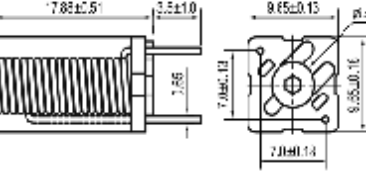
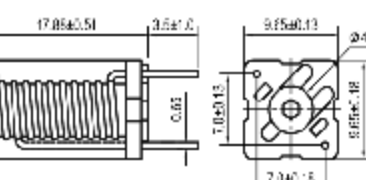
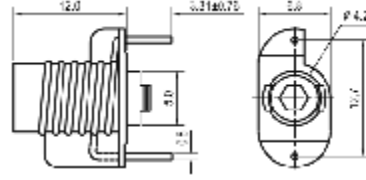
Method 1: For MD-0712/ 0707 /1012/
1015/ 1018 " type with " J", "FR" core.

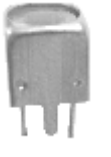
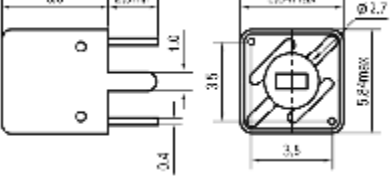
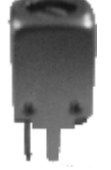
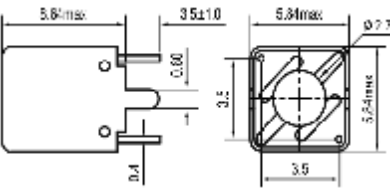
Models	Appearance	Dimensions (Unit:mm)	Specifications	Features
MD 0417Y- XXT-S-X			1.25 ~ 9.75 Turns L: 0.03~0.30uH @200MHz	Wire 0.5mm 2UEW Core AL: 3.3X6.4
MD 0505U- XXT-C-X			1.5 ~ 5.5 Turns BR / AL core L: 16~77nH Q: 60 ~ 80 @200MHz FR core L: 24~185nH Q: 80 ~ 100 @50MHz	Wire 0.4mm 2UEW Core BR / AL: 2.7X3.6 FR: 2.6X4
MD 0507U- XXT-S-X			1.5 ~ 6.5 Turns BR / AL core: 14~74nH Q: 50 ~ 60 @150MHz FR core: 26~142nH Q: 50 ~ 120 @100MHz	Wire 0.4mm 2UEW Core BR / AL: 2.7X3.6 FR: 2.6X4
MD 0509X- XXT-S-X			1.5 ~ 5.5 Turns L: 0.03 ~ 0.2uH $L \leq 0.085uH$ @50MHz $L > 0.085uH$ @25.2MHz	Wire 0.5mm TCW Core BR / AL: 2.7X3.6 FR: 2.6X4
MD 0610A- XXT-S-X			1.5 ~ 7.5 Turns L Q appx same as MD-0712U-S type	Wire 0.5mm TCW Core AL: 3.3X6.4 FR: 3.2X6 P1-1943
MD 0613U- XXT-C-X			1.5 ~ 15.5 Turns L: 0.03 ~ 0.7uH $L \leq 0.085uH$ @50MHz $L > 0.085uH$ @25.2MHz	Wire 0.5mm 2UEW Core AL: 3.3X6.4 FR: 3.2X6 P1-1943
MD 0707Y- XXT			1.5 ~ 10.5 Turns L: 0.027 ~ 0.140uH LQ @50MHz	Wire 0.65mm TCW
MD 0712U- XXT-C-X			1.5 ~ 10.5 Turns P1-1943 core L: 0.036 ~ 0.54uH Q: 60 ~ 76 $L \leq 0.19uH$ @100MHz $L > 0.19uH$ @50MHz	Wire 0.5mm 2UEW Core P1-1943 FR 3.2X6 AL 3.3X6.4

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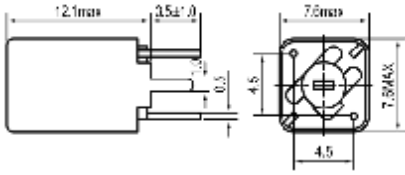
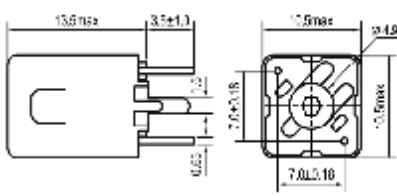
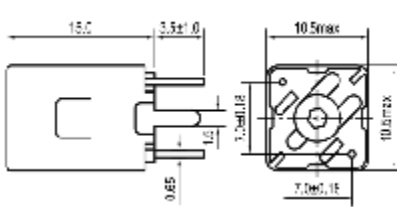
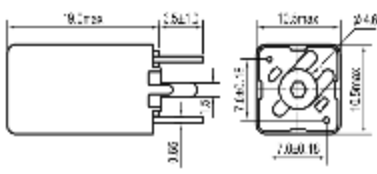
Models	Appearance	Dimensions (Unit:mm)	Specifications	Features
MD 0712U- XXT-S-X			1.5 ~ 7.5 Turns P1-1943 core L: 0.036 ~ 0.27uH Q: 72 ~ 90 $L \leq 0.13\mu\text{H}$ @100MHz $L > 0.13\mu\text{H}$ @50MHz	Wire 0.5mm TCW Core P1-1943 FR: 3.2X6 AL: 3.3X6.4
MD 0712A- XXT-C-X			1.5 ~ 16.5 Turns L: 0.10 ~ 1.50uH $L \leq 1.0\mu\text{H}$ @25.2MHz $L > 1.0\mu\text{H}$ @7.96MHz	Wire 0.5mm 2UEW Core FR: 4X8
MD 0807X- XXT-S-X			1.5 ~ 3.5 Turns L Q appx same as MD-0812X type	Wire 0.6mm TCW Core AL / FR: 4 X 5
MD 0812X- XXT-S-X			1.5 ~ 6.5 Turns L: 0.03 ~ 0.2uH AL core: @200MHz FR core: @50MHz	Wire 0.6mm TCW Core AL: 4 X 7 FR: 4 X 6
MD 0813Y- XXT-S-X			1.5 ~ 5.5 Turns L: 0.03~0.2uH AL core: @200MHz FR core: @50MHz	Wire 0.6mm TCW Core AL: 4 X 7 FR: 4 X 6
MD 1012U- XXT-C-X			1.5 ~ 10.5 Turns P1-2139 core L: 0.042 ~ 0.64uH Q: 80 ~ 102 $L \leq 0.245\mu\text{H}$ @100MHz $L > 0.245\mu\text{H}$ @50MHz	Wire 0.65mm 2UEW Core P1-2139 AL 4.6X6.4 FR 4.54X6
MD 1012U- XXT-S-X			1.5 ~ 5.5 Turns P1-2139 core L: 0.04 ~ 0.21uH Q: 70 ~ 108 $L \leq 0.162\mu\text{H}$ @100MHz $L > 0.162\mu\text{H}$ @50MHz	Wire 0.65mm TCW Core P1-2139 AL 4.6X6.4 FR 4.54X6

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

Models	Appearance	Dimensions (Unit:mm)	Specifications	Features
MD 1015U- XXT-S-X			1.5 ~ 10.5 Turns L: 0.03 ~ 0.35uH L $\leq$ 0.085uH @50MHz L $\leq$ 0.085uH @25.2MHz	Wire 0.65mm TCW Core P1-2139 AL 4.6X6.4 FR 4.54X6
MD 1015X- XXT-S-X			1.5 ~ 10.5 Turns L: 0.03 ~ 0.35uH L $\leq$ 0.085uH @50MHz L $\leq$ 0.085uH @25.2MHz	Wire 0.65mm TCW Core P1-2139 AL 4.6X6.4 FR 4.54X6
MD 1018U- XXT-C-X			1.5 ~ 17.5 Turns 0.04 ~ 1.5uH L $\leq$ 1.0uH @25.2MHz L $\leq$ 1.0uH @7.96MHz	Wire 0.65mm 2UEW Core P1-2070
MD 1018U- XXT-S-X			1.5 ~ 9.5 Turns 0.047 ~ 0.38uH L $\leq$ 0.085uH @50MHz L $\leq$ 0.085uH @25.2MHz	Wire 0.65mm TCW Core P1-2070
MD 1213X- XXT-S-X			1.5 ~ 5.5 Turns 0.04 ~ 0.2uH @200MHz	Wire 0.80mm TCW Core AL 4.15X7

Models	Appearance	Dimensions (Unit:mm)	Specifications	Features
MD 0505S- XXT-C			1.5 ~ 5.5 Turns BR/ AL core L: 14 ~ 58nH Q: 50 ~ 70 @200MHz FR core L: 17 ~ 95nH Q: 40 ~ 50 @50MHz	Wire 0.4mm 2UEW Core: FR 2.6X4 BR/ AL 2.7X3.6 Can: KC-5M
MD 0507S- XXT-S			1.5 ~ 6.5 Turns BR/ AL core L: 11~58nH Q: 45 ~ 55 @150MHz FR core: 14~86nH Q: 45 ~ 50 @100MHz	Wire 0.4mm 2UEW Core: FR 2.6X4 BR/ AL 2.7X3.6 Can: KB-5M

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Models	Appearance	Dimensions (Unit:mm)	Specifications	Features
MD 0712S- XXT-C/S			1.5 ~ 10.5 Turns Core: P1-1943 L: 0.033 ~ 0.31uH Q: 46 ~ 64 $L \leq 0.134\mu\text{H} @ 100\text{MHz}$ $L > 0.134\mu\text{H} @ 50\text{MHz}$	Wire 0.5mm 2UEW / TCW Core: P1-1943 FR 3.2X6 AL 3.3X6.4 Can: KC-175
MD 1012S- XXT-C/S			1.5 ~ 10.5 Turns Core: P1-2139 0.038 ~ 0.33uH Q: 60 ~ 80 $L \leq 0.22\mu\text{H} @ 50\text{MHz}$ $L > 0.22\mu\text{H} @ 25.2\text{MHz}$	Wire 0.65mm 2UEW / Core: P1-2139 FR 4.54X6 AL 4.6X6.4 Can: KC-15
MD 1015S- XXT-S			1.5 ~ 5.5 Turns 0.04 ~ 0.2uH $L \leq 0.085\mu\text{H} @ 50\text{MHz}$ $L > 0.085\mu\text{H} @ 25.2\text{MHz}$	Wire 0.65mm TCW Core: P1-2139 FR 4.54X6 AL 4.6X6.4 Can: KC-55
MD 1018S- XXT-C/S			1.5 ~ 17.5 Turns 0.039 ~ 0.64uH $L \leq 0.114\mu\text{H} @ 50\text{MHz}$ $L > 0.114\mu\text{H} @ 25.2\text{MHz}$	Wire 0.65mm 2UEW / Core: P1-2070 Can: KC-55

*For specification information, please refer to the coils with the same size & same winding method.
Please also see page 5.1 for how to distinguish the coil size and winding method used.

● MD-0505 series

Part No.	Color	L Min. (nH) Max.	L Max. (nH) Min.	L Nom. (nH) Ref.	Q @ L Nom. Min.	Test Freq. (MHz)
MD - 0505U - 1.5T - C - BR	Brown	16.66	17.34	17.0	80	200
MD - 0505U - 2.5T - C - BR	Red	30.07	31.93	31.0	80	200
MD - 0505U - 3.5T - C - BR	Orange	43.20	46.80	45.0	70	200
MD - 0505U - 4.5T - C - BR	Yellow	57.60	62.40	60.0	70	200
MD - 0505U - 5.5T - C - BR	Green	71.04	76.96	74.0	60	200
MD - 0505S - 1.5T - C - BR	Brown	14.78	15.23	15.0	70	200
MD - 0505S - 2.5T - C - BR	Red	24.50	25.50	25.0	70	200
MD - 0505S - 3.5T - C - BR	Orange	33.95	36.05	35.0	60	200
MD - 0505S - 4.5T - C - BR	Yellow	44.62	47.38	46.0	60	200
MD - 0505S - 5.5T - C - BR	Green	54.32	57.68	56.0	50	200
MD - 0505U - 1.5T - C - H11	Brown	24.25	25.75	25.0	100	50
MD - 0505U - 2.5T - C - H11	Red	49.40	54.60	52.0	100	50
MD - 0505U - 3.5T - C - H11	Orange	79.90	90.10	85.0	100	50
MD - 0505U - 4.5T - C - H11	Yellow	117.5	132.5	125.0	90	50
MD - 0505U - 5.5T - C - H11	Green	164.5	185.5	175.0	80	50
MD - 0505S - 1.5T - C - H11	Brown	17.95	19.06	18.5	50	50
MD - 0505S - 2.5T - C - H11	Red	31.04	32.96	32.0	45	50
MD - 0505S - 3.5T - C - H11	Orange	48.50	51.50	50.0	40	50
MD - 0505S - 4.5T - C - H11	Yellow	67.90	72.10	70.0	40	50
MD - 0505S - 5.5T - C - H11	Green	89.24	94.76	92.0	40	50

● MD-0507 series

Part No.	Color	L Min. (nH) Max.	L Max. (nH) Min.	L Nom. (nH) Ref.	Q @ L Nom. Min.	Test Freq. (MHz)
MD - 0507U - 1.5T - S - BR	Brown	14.70	15.30	15.0	60	150
MD - 0507U - 2.5T - S - BR	Red	23.28	24.72	24.0	55	150
MD - 0507U - 3.5T - S - BR	Orange	33.78	36.23	35.0	55	150
MD - 0507U - 4.5T - S - BR	Yellow	52.11	55.89	54.0	50	150
MD - 0507U - 5.5T - S - BR	Green	57.90	62.10	60.0	50	150
MD - 0507U - 6.5T - S - BR	Blue	68.52	73.49	71.0	50	150
MD - 0507S - 1.5T - S - BR	Brown	11.82	12.18	12.0	55	150
MD - 0507S - 2.5T - S - BR	Red	19.60	20.40	20.0	50	150
MD - 0507S - 3.5T - S - BR	Orange	27.30	28.70	28.0	50	150
MD - 0507S - 4.5T - S - BR	Yellow	35.10	36.90	36.0	45	150
MD - 0507S - 5.5T - S - BR	Green	46.80	49.20	48.0	45	150
MD - 0507S - 6.5T - S - BR	Blue	54.60	57.40	56.0	45	150

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Part No.	Color	L Min. (nH) Max.	L Max. (nH) Min.	L Nom. (nH) Ref.	Q @ L Nom. Min.	Test Freq. (MHz)
MD - 0507U - 1.5T - S - H11	Brown	26.06	27.95	27.0	50	100
MD - 0507U - 2.5T - S - H11	Red	34.20	37.80	36.0	80	100
MD - 0507U - 3.5T - S - H11	Orange	56.40	63.60	60.0	100	100
MD - 0507U - 4.5T - S - H11	Yellow	78.02	87.98	83.0	120	100
MD - 0507U - 5.5T - S - H11	Green	103.40	116.60	110.0	120	100
MD - 0507U - 6.5T - S - H11	Blue	125.96	142.04	134.0	120	100
MD - 0507S - 1.5T - S - H11	Brown	14.70	15.30	15.0	45	100
MD - 0507S - 2.5T - S - H11	Red	25.09	26.91	26.0	50	100
MD - 0507S - 3.5T - S - H11	Orange	38.40	41.60	40.0	50	100
MD - 0507S - 4.5T - S - H11	Yellow	50.88	55.12	53.0	50	100
MD - 0507S - 5.5T - S - H11	Green	66.24	71.76	69.0	50	100
MD - 0507S - 6.5T - S - H11	Blue	79.68	86.32	83.0	50	100

● MD - 0707Y series

Part No.	Wire	Color	L (nH) ±5%	Q Min.	L Q Test Freq. (MHz)
MD - 0707Y -1.5T	0.65Φ T.C.W	Brn	27.0	72	50
MD - 0707Y -2.5T	0.65Φ T.C.W	Red	32.0	82	50
MD - 0707Y -3.5T	0.65Φ T.C.W	Orn	38.5	84	50
MD - 0707Y -4.5T	0.65Φ T.C.W	Yel	47.5	86	50
MD - 0707Y -5.5T	0.65Φ T.C.W	Grn	59.0	94	50
MD - 0707Y -6.5T	0.65Φ T.C.W	Blu	70.0	100	50
MD - 0707Y -7.5T	0.65Φ 2UEW	Vio	87.0	82	50
MD - 0707Y -8.5T	0.65Φ 2UEW	Gry	104.0	80	50
MD - 0707Y -9.5T	0.65Φ 2UEW	Wht	125.0	80	50
MD - 0707Y -11.5T	0.65Φ 2UEW	Blk	140.0	80	50

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● MD-0712 series

Part No.	Color	L Min. (uH) Max.	L Max. (uH) Min.	L Nom (uH) Ref.	Q @ L Nom Min.	Test Freq. (MHz)
MD - 0712U - 1.5T - S - J	Brown	0.036	0.040	0.038	72	100
MD - 0712U - 2.5T - S - J	Red	0.056	0.070	0.063	72	100
MD - 0712U - 3.5T - S - J	Orange	0.082	0.108	0.096	72	100
MD - 0712U - 4.5T - S - J	Yellow	0.108	0.151	0.130	72	100
MD - 0712U - 5.5T - S - J	Green	0.137	0.193	0.165	82	50
MD - 0712U - 6.5T - S - J	Blue	0.176	0.234	0.205	90	50
MD - 0712U - 7.5T - S - J	Violet	0.222	0.268	0.245	90	50
MD - 0712S - 1.5T - S - J	Brown	0.032	0.034	0.033	58	100
MD - 0712S - 2.5T - S - J	Red	0.045	0.050	0.048	58	100
MD - 0712S - 3.5T - S - J	Orange	0.062	0.071	0.067	58	100
MD - 0712S - 4.5T - S - J	Yellow	0.082	0.100	0.092	56	100
MD - 0712S - 5.5T - S - J	Green	0.107	0.121	0.115	54	100
MD - 0712S - 6.5T - S - J	Blue	0.125	0.143	0.134	52	50
MD - 0712S - 7.5T - S - J	Violet	0.150	0.162	0.156	52	50
MD - 0712U - 1.5T - C - J	Brown	0.036	0.040	0.038	76	100
MD - 0712U - 2.5T - C - J	Red	0.057	0.071	0.064	76	100
MD - 0712U - 3.5T - C - J	Orange	0.090	0.122	0.106	66	100
MD - 0712U - 4.5T - C - J	Yellow	0.117	0.175	0.146	66	100
MD - 0712U - 5.5T - C - J	Green	0.148	0.232	0.190	66	100
MD - 0712U - 6.5T - C - J	Blue	0.188	0.292	0.240	62	50
MD - 0712U - 7.5T - C - J	Violet	0.231	0.350	0.292	62	50
MD - 0712U - 8.5T - C - J	Gray	0.272	0.412	0.342	62	50
MD - 0712U - 9.5T - C - J	White	0.330	0.480	0.405	60	50
MD - 0712U - 10.5T - C - J	Black	0.390	0.540	0.465	60	50
MD - 0712S - 1.5T - C - J	Brown	0.032	0.034	0.033	64	100
MD - 0712S - 2.5T - C - J	Red	0.050	0.056	0.053	64	100
MD - 0712S - 3.5T - C - J	Orange	0.070	0.084	0.077	64	100
MD - 0712S - 4.5T - C - J	Yellow	0.100	0.120	0.110	60	100
MD - 0712S - 5.5T - C - J	Green	0.120	0.150	0.135	60	100
MD - 0712S - 6.5T - C - J	Blue	0.142	0.184	0.163	48	50
MD - 0712S - 7.5T - C - J	Violet	0.172	0.216	0.194	48	50
MD - 0712S - 8.5T - C - J	Gray	0.202	0.248	0.224	48	50
MD - 0712S - 9.5T - C - J	White	0.234	0.284	0.260	46	50
MD - 0712S - 10.5T - C - J	Black	0.260	0.315	0.288	46	50

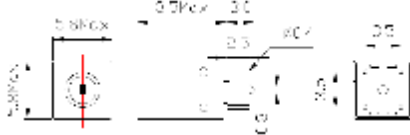
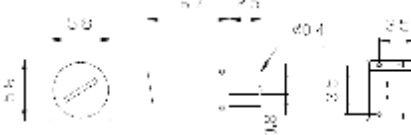
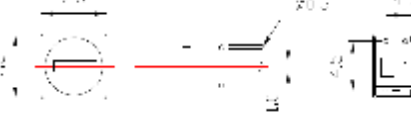
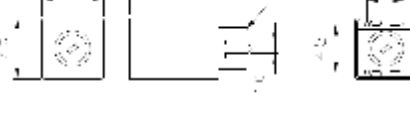
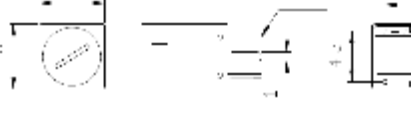
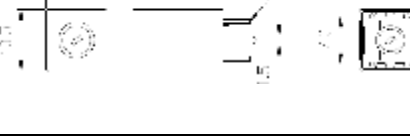
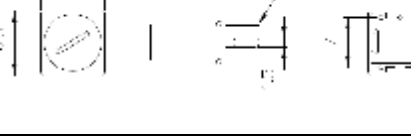
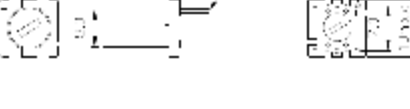
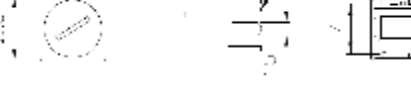
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● MD-1012 series

Part No.	Color	L Min. (uH) Max.	L Max. (uH) Min.	L Nom (uH) Ref.	Q @ L Nom Min.	Test Freq. (MHz)
MD - 1012U - 1.5T - S - J	Brown	0.040	0.046	0.044	70	100
MD - 1012U - 2.5T - S - J	Red	0.068	0.081	0.075	82	100
MD - 1012U - 3.5T - S - J	Orange	0.100	0.110	0.105	88	100
MD - 1012U - 4.5T - S - J	Yellow	0.150	0.171	0.162	82	100
MD - 1012U - 5.5T - S - J	Green	0.180	0.205	0.189	108	50
MD - 1012S - 1.5T - S - J	Brown	0.037	0.039	0.038	62	100
MD - 1012S - 2.5T - S - J	Red	0.056	0.063	0.060	68	100
MD - 1012S - 3.5T - S - J	Orange	0.076	0.088	0.082	72	100
MD - 1012S - 4.5T - S - J	Yellow	0.100	0.110	0.105	72	100
MD - 1012S - 5.5T - S - J	Green	0.120	0.128	0.124	76	100
MD - 1012U - 1.5T - C - J	Brown	0.042	0.047	0.045	92	100
MD - 1012U - 2.5T - C - J	Red	0.073	0.091	0.082	96	100
MD - 1012U - 3.5T - C - J	Orange	0.129	0.156	0.141	90	100
MD - 1012U - 4.5T - C - J	Yellow	0.172	0.216	0.194	80	100
MD - 1012U - 5.5T - C - J	Green	0.215	0.276	0.245	90	100
MD - 1012U - 6.5T - C - J	Blue	0.265	0.345	0.312	90	50
MD - 1012U - 7.5T - C - J	Violet	0.330	0.427	0.378	95	50
MD - 1012U - 8.5T - C - J	Gray	0.396	0.502	0.450	80	50
MD - 1012U - 9.5T - C - J	White	0.473	0.561	0.520	84	50
MD - 1012U - 10.5T - C - J	Black	0.550	0.635	0.592	102	50
MD - 1012S - 1.5T - C - J	Brown	0.037	0.040	0.039	70	100
MD - 1012S - 2.5T - C - J	Red	0.060	0.069	0.065	78	100
MD - 1012S - 3.5T - C - J	Orange	0.089	0.106	0.097	80	100
MD - 1012S - 4.5T - C - J	Yellow	0.131	0.149	0.140	76	100
MD - 1012S - 5.5T - C - J	Green	0.172	0.201	0.187	70	100
MD - 1012S - 6.5T - C - J	Blue	0.189	0.217	0.209	66	100
MD - 1012S - 7.5T - C - J	Violet	0.240	0.261	0.251	76	100
MD - 1012S - 8.5T - C - J	Gray	0.267	0.303	0.290	66	100
MD - 1012S - 9.5T - C - J	White	0.316	0.355	0.341	60	100
MD - 1012S - 10.5T - C - J	Black	0.360	0.400	0.388	60	100

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

GENERAL I.F.ADJUSTABLE INDUCTORS

TYPE	DIMENSIONS	SPEC.	TYPE	DIMENSIONS	SPEC.
K5		L: Max. 3uH F: Max. 200MHz C:---/EXT.	E5		L:1uH-680uH F: Max. 20MHz C:INT./EXT.
KL5		L: Max. 3uH F: Max. 200MHz C:---/EXT.	E6		L:1uH-680uH F: Max. 20MHz C:INT./EXT.
K9		L: Max. 10uH F: Max. 200MHz C:INT./EXT.	E8		L:1uH-1mH F: Max. 20MHz C:INT./EXT.
K7		L: Max. 30uH F: Max. 200MHz C:INT./EXT.	E7		L:1uH-3mH F: Max. 20MHz C:INT./EXT.
K10		L: Max. 30uH F: Max. 200MHz C:INT./EXT.	E10		L:1uH-3mH F: Max. 20MHz C:INT./EXT.
S-1		L: Max. 10uH F: Max. 200MHz C:---/EXT.	M10		L: 100mH Max. F:10-800KHz C:---/EXT.

* These General I.F.Adjustable Inductors cross many popular manufacturers. For more information or data sheets on a particular item, please contact our sales representative or engineering support near you.

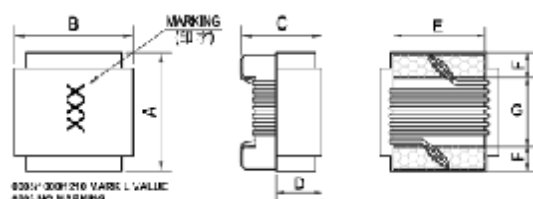
SMDCHGR SERIES

MINIATURE SMD CHIP INDUCTORS

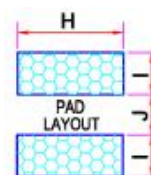
Applications :

- Pagers, Cordless phone.
- High Freq. Communication Products.
- GPS(Global Position System).

Shape and Dimensions (Dimensions are in mm) :



Item	A Max	B Max	C Max	D	E	F	G
0402S	1.19	0.70	0.66	0.25	0.51	0.23	0.56
0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86
0805	2.29	1.73	1.52	0.51	1.27	0.51	1.02
1008	2.92	2.79	2.10	0.51	2.03	0.51	1.52
1210	3.56	2.92	2.23	0.51	2.10	0.51	2.03



Item	H	I	J
0402S	0.66	0.36	0.46
0603	1.02	0.64	0.64
0805	1.78	1.02	0.76
1008	2.54	1.02	1.27
1210	2.54	1.02	1.78

Features :

- Miniature SMD chip inductors designed especially for the need of high frequency applications.
- The ceramic construction delivers the highest possible SRF's and Q values.
- The non-magnetic coilform also assures the utmost In thermal stability,predictability,and batch consistency.
- Their ferrite core inductors have lower DCR and higher current ratings. The inductance values from 1.2 to 10uH.

Characteristics :

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T = 15^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Operating temp: -40°C to 125°C

Product Identification :

SMD CH G R 1008 - 47N J
 (1) (2) (3) (4) (5) (6) (7)

- (1) Type : Surface Mount Devices.
- (2) Material: CH : Ceramic.
- (3) Terminal G : with Gold wraparound.
- (4) Packaging R : Tape and Reel.
- (5) Dimension: L=0.1 Inch W=0.08 Inch.
- (6) Inductance : 47N for 47 nH.
- (7) Inductance tolerance :
 G: $\pm 2\%$; J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$.

Test equipments :

- L&Q&SRF: Agilent E4991A RF Impedance analyzer. with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



● SMDCHGR0402S series

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0402S-1N0□	1.0	5 , 10	16	250	12700	0.045	1360
SMDCHGR0402S-1N9□	1.9	5 , 10	16	250	11300	0.070	1040
SMDCHGR0402S-2N0□	2.0	5 , 10	16	250	11100	0.070	1040
SMDCHGR0402S-2N2□	2.2	5 , 10	19	250	10800	0.070	960
SMDCHGR0402S-2N4□	2.4	5 , 10	15	250	10500	0.068	790
SMDCHGR0402S-2N7□	2.7	5 , 10	16	250	10400	0.120	640
SMDCHGR0402S-3N3□	3.3	5 , 10	19	250	7000	0.066	840
SMDCHGR0402S-3N9□	3.9	5 , 10	19	250	6000	0.066	840
SMDCHGR0402S-4N3□	4.3	5 , 10	18	250	6000	0.091	700
SMDCHGR0402S-4N7□	4.7	5 , 10	15	250	4770	0.130	640
SMDCHGR0402S-5N1□	5.1	5 , 10	20	250	4800	0.083	800
SMDCHGR0402S-5N6□	5.6	5 , 10	20	250	4800	0.083	760
SMDCHGR0402S-6N2□	6.2	5 , 10	20	250	4800	0.083	760
SMDCHGR0402S-6N8□	6.8	5 , 10	20	250	4800	0.083	680
SMDCHGR0402S-7N5□	7.5	5 , 10	22	250	4800	0.100	680
SMDCHGR0402S-8N2□	8.2	5 , 10	22	250	4400	0.100	680
SMDCHGR0402S-8N7□	8.7	5 , 10	18	250	4100	0.200	480
SMDCHGR0402S-9N1□	9.1	5 , 10	22	250	4160	0.100	680
SMDCHGR0402S-9N5□	9.5	5 , 10	18	250	4000	0.200	480
SMDCHGR0402S-10N□	10	5 , 10	21	250	3900	0.200	480
SMDCHGR0402S-11N□	11	5 , 10	24	250	3680	0.120	640
SMDCHGR0402S-12N□	12	5 , 10	24	250	3600	0.120	640
SMDCHGR0402S-15N□	15	5 , 10	24	250	3280	0.170	560
SMDCHGR0402S-16N□	16	5 , 10	24	250	3100	0.220	560
SMDCHGR0402S-18N□	18	5 , 10	25	250	3100	0.230	420
SMDCHGR0402S-20N□	20	5 , 10	25	250	3000	0.250	420
SMDCHGR0402S-22N□	22	5 , 10	25	250	2800	0.300	400
SMDCHGR0402S-27N□	27	5 , 10	24	250	2480	0.300	400
SMDCHGR0402S-33N□	33	5 , 10	24	250	2350	0.400	400
SMDCHGR0402S-39N□	39	5 , 10	25	250	2100	0.550	200
SMDCHGR0402S-43N□	43	5 , 10	25	250	2030	0.810	100
SMDCHGR0402S-47N□	47	5 , 10	20	250	2100	0.830	150
SMDCHGR0402S-56N□	56	5 , 10	22	250	1760	0.970	100
SMDCHGR0402S-68N□	68	5 , 10	22	250	1620	1.120	100
SMDCHGR0402S-82N□	82	5 , 10	20	250	1260	1.550	50

● SMDCHGR0603 series

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0603-1N6□	1.6	10 , 20	24	250	12500	0.030	700
SMDCHGR0603-1N8□	1.8	10 , 20	16	250	12500	0.045	700
SMDCHGR0603-3N6□	3.6	10 , 20	22	250	5900	0.063	700
SMDCHGR0603-3N9□	3.9	5, 10, 20	22	250	6900	0.080	700
SMDCHGR0603-4N7□	4.7	5, 10, 20	20	250	5800	0.116	700
SMDCHGR0603-5N1□	5.1	5, 10, 20	20	250	5700	0.140	700
SMDCHGR0603-6N8□	6.8	5, 10, 20	27	250	5800	0.110	700
SMDCHGR0603-7N5□	7.5	5, 10, 20	28	250	4800	0.106	700
SMDCHGR0603-8N2□	8.2	5, 10, 20	28	250	4700	0.120	700
SMDCHGR0603-9N5□	9.5	5, 10, 20	28	250	5400	0.150	700
SMDCHGR0603-10N□	10	2, 5, 10	31	250	4800	0.130	700
SMDCHGR0603-11N□	11	2, 5, 10	33	250	4000	0.130	700
SMDCHGR0603-12N□	12	2, 5, 10	35	250	4000	0.130	700
SMDCHGR0603-15N□	15	2, 5, 10	35	250	4000	0.170	700
SMDCHGR0603-16N□	16	2, 5, 10	34	250	3300	0.160	700
SMDCHGR0603-18N□	18	2, 5, 10	35	250	3100	0.170	700
SMDCHGR0603-22N□	22	2, 5, 10	38	250	3000	0.190	700
SMDCHGR0603-24N□	24	2, 5, 10	37	250	2650	0.190	700
SMDCHGR0603-27N□	27	2, 5, 10	40	250	2800	0.220	600
SMDCHGR0603-30N□	30	2, 5, 10	37	250	2250	0.220	600
SMDCHGR0603-33N□	33	2, 5, 10	40	250	2300	0.220	600
SMDCHGR0603-36N□	36	2, 5, 10	38	250	2080	0.250	600
SMDCHGR0603-39N□	39	2, 5, 10	40	250	2200	0.250	600
SMDCHGR0603-43N□	43	2, 5, 10	39	250	2000	0.280	600
SMDCHGR0603-47N□	47	2, 5, 10	38	200	2000	0.280	600
SMDCHGR0603-56N□	56	2, 5, 10	38	200	1900	0.310	600
SMDCHGR0603-68N□	68	2, 5, 10	37	200	1700	0.340	600
SMDCHGR0603-72N□	72	2, 5, 10	34	150	1700	0.490	400
SMDCHGR0603-82N□	82	2, 5, 10	34	150	1700	0.540	400
SMDCHGR0603-R10□	100	2, 5, 10	34	150	1400	0.580	400
SMDCHGR0603-R11□	110	2, 5, 10	32	150	1350	0.610	300
SMDCHGR0603-R12□	120	2, 5, 10	32	150	1300	0.750	300
SMDCHGR0603-R15□	150	2, 5, 10	28	150	990	0.920	280
SMDCHGR0603-R18□	180	2, 5, 10	25	100	990	1.350	240
SMDCHGR0603-R22□	220	2, 5, 10	25	100	900	2.100	200
SMDCHGR0603-R27□	270	5, 10, 20	24	100	520	2.800	170

● SMDCHGR0805 series

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0805-2N2□	2.2	10 , 20	15	250&1500	6000	0.08	600
SMDCHGR0805-2N7□	2.7	10 , 20	50	250&1500	6000	0.08	600
SMDCHGR0805-3N3□	3.3	10 , 20	35	250&1500	6000	0.08	600
SMDCHGR0805-5N6□	5.6	5, 10, 20	50	250&1000	5500	0.10	600
SMDCHGR0805-6N8□	6.8	5, 10, 20	50	250&1000	5500	0.11	600
SMDCHGR0805-8N2□	8.2	5, 10, 20	50	250&500	4700	0.12	600
SMDCHGR0805-10N□	10	2, 5, 10	50	250&500	4300	0.14	600
SMDCHGR0805-11N□	11	2, 5, 10	50	250&500	4000	0.15	600
SMDCHGR0805-12N□	12	2, 5, 10	50	250&500	4000	0.15	600
SMDCHGR0805-15N□	15	5, 10, 20	50	250&500	3400	0.17	600
SMDCHGR0805-18N□	18	2, 5, 10	50	250&500	3300	0.20	600
SMDCHGR0805-22N□	22	2, 5, 10	55	250&500	2600	0.22	500
SMDCHGR0805-27N□	27	2, 5, 10	55	250&500	2500	0.25	500
SMDCHGR0805-33N□	33	2, 5, 10	60	250&500	2050	0.27	500
SMDCHGR0805-39N□	39	2, 5, 10	60	250&500	2000	0.29	500
SMDCHGR0805-47N□	47	2, 5, 10	60	200&500	1650	0.31	500
SMDCHGR0805-56N□	56	2, 5, 10	60	200&500	1550	0.34	500
SMDCHGR0805-68N□	68	2, 5, 10	60	200&500	1450	0.38	500
SMDCHGR0805-82N□	82	2, 5, 10	60	150&500	1300	0.42	400
SMDCHGR0805-R10□	100	2, 5, 10	60	150&500	1200	0.46	400
SMDCHGR0805-R12□	120	2, 5, 10	50	150&250	1100	0.51	400
SMDCHGR0805-R15□	150	2, 5, 10	50	100&250	920	0.56	400
SMDCHGR0805-R18□	180	2, 5, 10	50	100&250	870	0.64	400
SMDCHGR0805-R22□	220	2, 5, 10	50	100&250	850	0.70	400
SMDCHGR0805-R27□	270	2, 5, 10	48	100&250	650	1.10	350
SMDCHGR0805-R33□	330	2, 5, 10	48	100&250	600	1.40	310
SMDCHGR0805-R39□	390	2, 5, 10	48	100&250	560	1.50	290
SMDCHGR0805-R47□	470	2, 5, 10	33	50&100	375	1.76	250
SMDCHGR0805-R56□	560	5, 10, 20	23	25&50	340	1.90	230
SMDCHGR0805-R68□	680	5, 10, 20	23	25&50	188	2.20	190
SMDCHGR0805-R82□	820	5, 10, 20	23	25&50	215	2.35	180
SMDCHGR0805-1R0□	1000	5, 10, 20	20	25&50	200	2.40	170
SMDCHGR0805-1R5□	1500	5, 10, 20	18	7.9&50	170	2.80	160

● SMDCHGR1008 series

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR1008-10N□	10	2, 5, 10	50	50&500	4100	0.08	1000
SMDCHGR1008-12N□	12	2, 5, 10	50	50&500	3300	0.09	1000
SMDCHGR1008-15N□	15	2, 5, 10	50	50&500	2500	0.15	1000
SMDCHGR1008-18N□	18	2, 5, 10	50	50&350	2500	0.11	1000
SMDCHGR1008-22N□	22	2, 5, 10	55	50&350	2400	0.12	1000
SMDCHGR1008-27N□	27	2, 5, 10	55	50&350	1600	0.13	1000
SMDCHGR1008-33N□	33	2, 5, 10	60	50&350	1600	0.14	1000
SMDCHGR1008-39N□	39	2, 5, 10	60	50&350	1500	0.15	1000
SMDCHGR1008-47N□	47	2, 5, 10	65	50&350	1500	0.16	1000
SMDCHGR1008-56N□	56	2, 5, 10	65	50&350	1300	0.18	1000
SMDCHGR1008-68N□	68	2, 5, 10	65	50&350	1300	0.20	1000
SMDCHGR1008-82N□	82	2, 5, 10	60	50&350	1000	0.22	1000
SMDCHGR1008-R10□	100	2, 5, 10	60	25&350	1000	0.56	650
SMDCHGR1008-R12□	120	2, 5, 10	60	25&350	950	0.63	650
SMDCHGR1008-R15□	150	2, 5, 10	45	25&100	850	0.70	580
SMDCHGR1008-R18□	180	5, 10, 20	45	25&100	750	0.77	620
SMDCHGR1008-R22□	220	2, 5, 10	45	25&100	660	0.84	500
SMDCHGR1008-R27□	270	2, 5, 10	45	25&100	600	0.91	500
SMDCHGR1008-R33□	330	2, 5, 10	45	25&100	570	1.05	450
SMDCHGR1008-R39□	390	2, 5, 10	45	25&100	500	1.12	470
SMDCHGR1008-R47□	470	2, 5, 10	45	25&100	450	1.19	470
SMDCHGR1008-R56□	560	2, 5, 10	45	25&100	415	1.33	400
SMDCHGR1008-R68□	680	2, 5, 10	45	25&100	375	1.47	400
SMDCHGR1008-R82□	820	5, 10, 20	45	25&100	320	1.61	400
SMDCHGR1008-1R0□	1000	2, 5, 10	35	25&50	290	1.75	370
SMDCHGR1008-1R2□	1200	2, 5, 10	35	7.9&50	250	2.00	310
SMDCHGR1008-1R5□	1500	5, 10, 20	28	7.9&50	200	2.30	330
SMDCHGR1008-1R8□	1800	5, 10, 20	28	7.9&50	160	2.60	300
SMDCHGR1008-2R2□	2200	5, 10, 20	25	7.9&50	98	2.80	280
SMDCHGR1008-2R7□	2700	5, 10, 20	22	7.9&25	80	3.20	290
SMDCHGR1008-3R3□	3300	5, 10, 20	22	7.9&25	70	3.40	290
SMDCHGR1008-3R9□	3900	5, 10, 20	20	7.9&25	60	3.60	260
SMDCHGR1008-4R7□	4700	5, 10, 20	18	7.9&25	60	4.00	260
SMDCHGR1008-5R6□	5600	5, 10, 20	20	7.9&7.9	55	6.80	190
SMDCHGR1008-6R8□	6800	5, 10, 20	20	7.9&7.9	50	7.50	180

● SMDCHGR1210 series

Part No.	Inductance L (nH)	Toleranc (±%)	Q Min.	Test (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR1210-10N□	10	2, 5, 10	50	50&500	4100	0.08	1000
SMDCHGR1210-12N□	12	2, 5, 10	50	50&500	3300	0.09	1000
SMDCHGR1210-15N□	15	2, 5, 10	50	50&500	2500	0.10	1000
SMDCHGR1210-18N□	18	2, 5, 10	50	50&350	2500	0.11	1000
SMDCHGR1210-22N□	22	2, 5, 10	55	50&350	2000	0.12	1000
SMDCHGR1210-27N□	27	2, 5, 10	55	50&500	1600	0.13	1000
SMDCHGR1210-33N□	33	2, 5, 10	60	50&350	1600	0.14	1000
SMDCHGR1210-39N□	39	2, 5, 10	60	50&350	1500	0.15	1000
SMDCHGR1210-47N□	47	2, 5, 10	65	50&350	1500	0.16	1000
SMDCHGR1210-56N□	56	2, 5, 10	65	50&350	1300	0.18	1000
SMDCHGR1210-68N□	68	2, 5, 10	65	50&350	1300	0.20	1000
SMDCHGR1210-82N□	82	2, 5, 10	60	50&350	1000	0.22	1000
SMDCHGR1210-R10□	100	2, 5, 10	60	25&350	1000	0.24	980
SMDCHGR1210-R12□	120	2, 5, 10	60	25&350	950	0.26	920
SMDCHGR1210-R15□	150	2, 5, 10	45	25&100	850	0.29	870
SMDCHGR1210-R18□	180	2, 5, 10	45	25&100	750	0.31	830
SMDCHGR1210-R22□	220	2, 5, 10	45	25&100	700	0.35	790
SMDCHGR1210-R27□	270	2, 5, 10	45	25&100	600	0.42	730
SMDCHGR1210-R33□	330	2, 5, 10	45	25&100	570	0.49	680
SMDCHGR1210-R39□	390	2, 5, 10	45	25&100	500	0.54	640
SMDCHGR1210-R47□	470	2, 5, 10	45	25&100	450	0.60	610
SMDCHGR1210-R56□	560	5, 10, 20	45	25&100	415	1.00	460
SMDCHGR1210-R68□	680	2, 5, 10	45	25&100	375	1.15	420
SMDCHGR1210-R82□	820	2, 5, 10	45	25&100	350	1.93	350
SMDCHGR1210-1R0□	1000	2, 5, 10	45	25&100	290	2.16	330
SMDCHGR1210-1R2□	1200	2, 5, 10	45	7.9&100	250	2.38	310
SMDCHGR1210-1R5□	1500	2, 5, 10	35	7.9&50	200	2.64	300
SMDCHGR1210-1R8□	1800	2, 5, 10	30	7.9&50	160	2.76	290
SMDCHGR1210-2R2□	2200	2, 5, 10	25	7.9&50	160	2.98	280
SMDCHGR1210-2R7□	2700	2, 5, 10	22	7.9&50	140	3.30	260
SMDCHGR1210-3R3□	3300	5, 10, 20	22	7.9&25	110	3.66	250
SMDCHGR1210-3R9□	3900	5, 10, 20	22	7.9&7.9	100	4.00	240
SMDCHGR1210-4R7□	4700	5, 10, 20	22	7.9&7.9	90	4.30	230

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

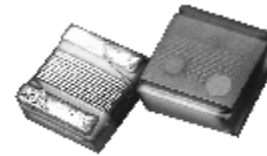


SMDCHGR0805SQ/1008SQ SERIES

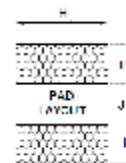
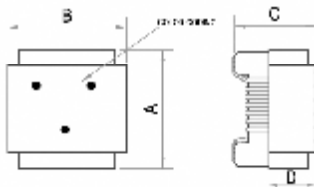
MINIATURE SMD CHIP INDUCTORS

Applications :

- For high-frequency applications including mobile Phones, portable phones, such as PA, ANT, VCD SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
0805SQ	2.40	1.65	1.45	0.65
1008SQ	2.90	2.54	2.03	1.30

Item	H	I	J
0805SQ	1.78	1.02	0.76
1008SQ	2.54	1.02	1.27

Features :

- **Especially High** Q factor by customized design
- Resin-coated surface enables excellent mounting.
- Low DC resistance design is **an** ideal for low loss, high output and low power consumption.

Characteristics:

- Rated Current : The current when temperature of coil increase up to max. $\Delta T = 15^{\circ}\text{C}$. ($T_a = 25^{\circ}\text{C}$).
- Operating temp: -40°C to 125°C .

Product Identification :

SMD CH G R 1008 SQ - 47N J
(1) (2) (3) (4) (5) (6) (7) (8)

- (1) Type : Surface Mount Devices.
- (2) Material : CH : Ceramic.
- (3) Terminal G : with Gold wraparound.
- (4) Packaging R : Tape and Reel.
- (5) Dimension : L=0.1 Inch W=0.08 Inch.
- (6) high Q.
- (7) Inductance : 47N for 47 nH.
- (8) Inductance tolerance :
G: $\pm 2\%$; J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$.

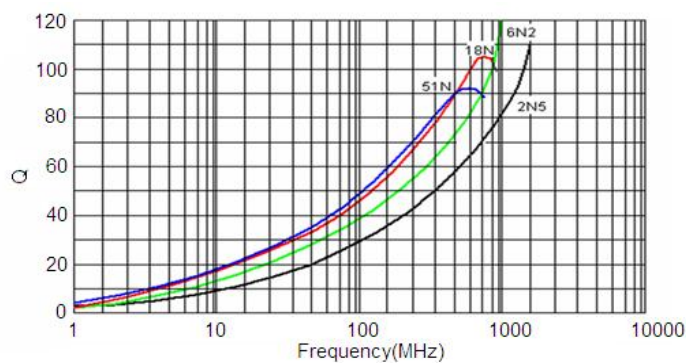
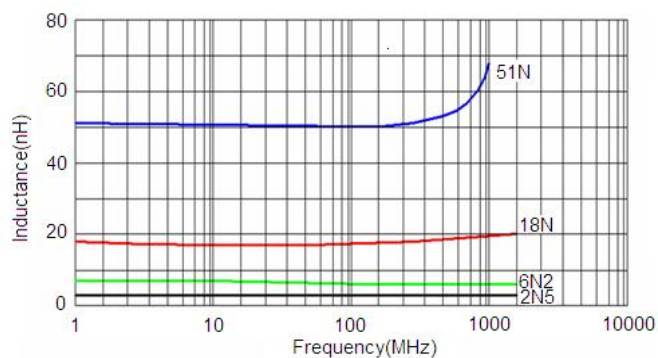
Test equipments :

- L&Q&SRF: Agilent E4991A RF Impedance analyzer
With Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .

● SMDCHGR0805SQ series

Part No.	Inductance L (nH)	Tole. (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF MHz Min.	DCR (Ω) Max.	Rated Current (mA) Max.	Color Coding
SMDCHGR0805SQ-2N5□	2.5	5,10,20	60	250&1500	6000	0.030	1600	BLK
SMDCHGR0805SQ-5N6□	5.6	5,10,20	98	250&1500	6000	0.040	1600	BRN
SMDCHGR0805SQ-6N2□	6.2	5,10,20	70	250&1000	4750	0.035	1600	RED
SMDCHGR0805SQ-12N□	12	2, 5,10	80	250&1000	3000	0.050	1600	ORN
SMDCHGR0805SQ-16N□	16	2, 5,10	72	250&500	2950	0.060	1500	YEL
SMDCHGR0805SQ-18N□	18	2, 5,10	75	250&500	2550	0.065	1400	GRN
SMDCHGR0805SQ-20N□	20	2, 5,10	70	250&500	2050	0.065	1400	BLU
SMDCHGR0805SQ-27N□	27	2, 5,10	75	250&500	2000	0.075	1300	VIO
SMDCHGR0805SQ-30N□	30	2, 5,10	65	250&500	1950	0.095	1200	GRY
SMDCHGR0805SQ-39N□	39	2, 5,10	65	250&500	1600	0.100	1100	WHT
SMDCHGR0805SQ-48N□	48	2, 5,10	65	200&500	1400	0.100	1200	BLK
SMDCHGR0805SQ-51N□	51	2, 5,10	65	200&500	1400	0.120	1000	BRN

Typical performance curves :

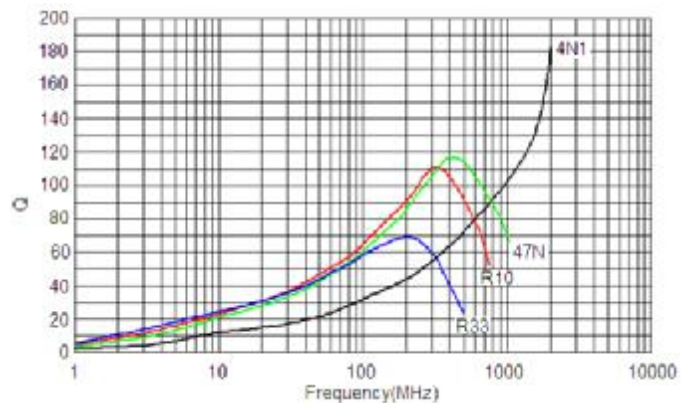
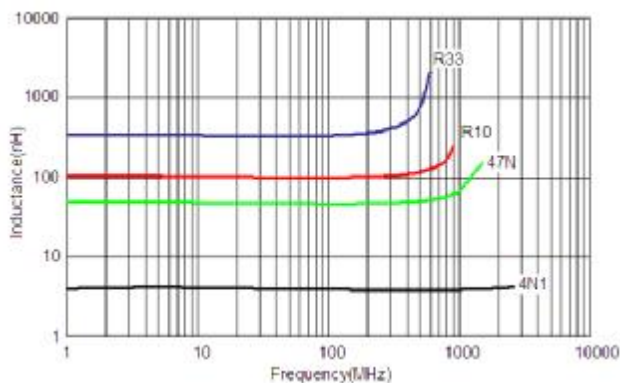




● SMDCHGR1008SQ series

Part No.	Inductance L (nH)	Tole. (±%)	Q Min	Test Freq. (MHz) L&Q	SRF MHz Min.	DCR (Ω) Max.	Rated Current (mA) Max.	Color Coding		
								1s	2nd	3rd
SMDCHGR1008SQ-4N1□	4.1	5,10,20	75	50&1500	6000	0.05	1600	BL	YEL	BLK
SMDCHGR1008SQ-10N□	10	5,10,20	60	50&500	3600	0.06	1600	BR	BLK	BLK
SMDCHGR1008SQ-12N□	12	5,10,20	60	50&500	2800	0.06	1500	BR	RED	BLK
SMDCHGR1008SQ-18N□	18	2, 5,10	62	50&350	2700	0.07	1400	BR	GRY	BLK
SMDCHGR1008SQ-22N□	22	2, 5,10	62	50&350	2050	0.07	1400	RE	RED	BLK
SMDCHGR1008SQ-33N□	33	2, 5,10	75	50&350	1700	0.09	1300	O	ORN	BLK
SMDCHGR1008SQ-39N□	39	2, 5,10	75	50&350	1300	0.09	1300	O	WHT	BLK
SMDCHGR1008SQ-47N□	47	2, 5,10	75	50&350	1450	0.12	1200	YE	VIO	BLK
SMDCHGR1008SQ-56N□	56	2, 5,10	75	50&350	1200	0.12	1200	G	BLU	BLK
SMDCHGR1008SQ-68N□	68	2, 5,10	80	50&350	1150	0.13	1100	BL	GRY	BLK
SMDCHGR1008SQ-82N□	82	2, 5,10	80	50&350	1060	0.16	1100	G	RED	BLK
SMDCHGR1008SQ-R10□	100	2, 5,10	62	50&350	1000	0.18	1000	BR	BLK	BRN
SMDCHGR1008SQ-R12□	120	2, 5,10	50	25&100	870	0.18	1000	BR	GRN	BRN
SMDCHGR1008SQ-R15□	150	2, 5,10	50	25&100	850	0.23	1000	BR	GRN	BRN
SMDCHGR1008SQ-R22□	220	2, 5,10	50	25&100	750	0.35	1000	RE	RED	BRN
SMDCHGR1008SQ-R27□	270	2, 5,10	48	25&100	630	0.40	900	RE	VIO	BRN
SMDCHGR1008SQ-R33□	330	2, 5,10	48	25&100	570	0.47	900	O	ORN	BRN
SMDCHGR1008SQ-R39□	390	2, 5,10	48	25&100	500	0.62	900	O	WHT	BRN

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

SMDFSR SERIES

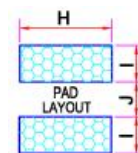
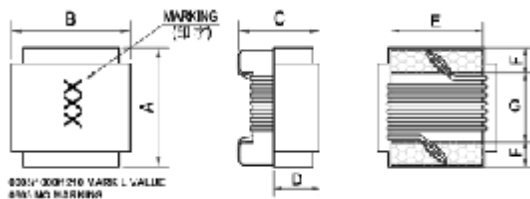
MINIATURE SMD CHIP INDUCTORS

Applications :

- XDSL/CATV/Wireless Lan /Cable Modem for single Line and other small-sized general electronic applications.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	G
0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86
0805	2.29	1.73	1.52	0.51	1.27	0.51	1.02
1008	2.92	2.79	2.10	0.51	2.03	0.51	1.52

Item	H	I	J
0603	1.02	0.64	0.64
0805	1.78	1.02	0.76
1008	2.54	1.02	1.27

Features :

- Miniature SMD wire wound chip inductors ~~have been~~ designed especially for the need of ~~today's~~ small-sized applications.
 - The SMDFSR series is recommended for single line application.
 - Resin-coated surface enables excellent mounting.
 - Their ferrite core inductors have lower DCR and higher Current ratings.
- The inductance values from 0.047 to 10uH.

Product Identification :

SMD F S R 0805 - 1R0 J

(1) (2) (3) (4) (5) (6) (7)

- (1) Type : Surface Mount Devices.
- (2) Material F: Ferrite core.
- (3) Terminal S : with Silver wraparound.
- (4) Packaging R : Tape and Reel.
- (5) Dimension.
- (6) Inductance : **1R0** for 1.0 uH.
- (7) Inductance tolerance :
J:±5%;K:±10%;M:±20%.

Characteristics :

- Rated Current : The current when temperature of coil increase up to max. $\Delta T=20^{\circ}\text{C}$.($T_a=20^{\circ}\text{C}$)
- Operating temp: -25°C to 85°C .

Test equipments :

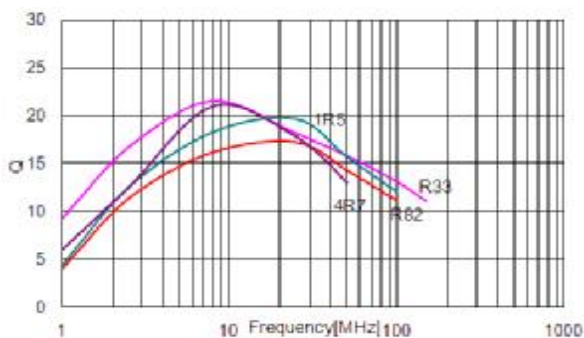
- L&Q&SRF: Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .

● SMDFSR0603E series

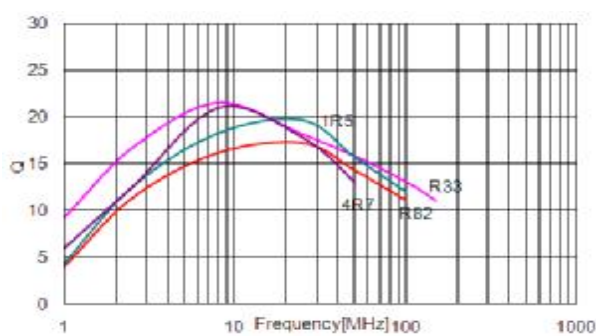
Part No.	L (uH)	Tole. (±%)	Q Ref.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.	Color code
SMDFSR0603E-47N□	0.047	5 , 10	17	7.9	1700	0.075	1500	BLK
SMDFSR0603E-72N□	0.072	5 , 10	17	7.9	1700	0.12	1500	BRN
SMDFSR0603E-R10□	0.10	5 , 10	17	7.9	1650	0.13	1500	RED
SMDFSR0603E-R12□	0.12	5 , 10	17	7.9	1400	0.15	1500	ORN
SMDFSR0603E-R15□	0.15	5 , 10	17	7.9	1350	0.15	1450	YEL
SMDFSR0603E-R18□	0.18	5 , 10	17	7.9	1350	0.15	1400	GRN
SMDFSR0603E-R22□	0.22	5 , 10	17	7.9	1150	0.16	1350	BLU
SMDFSR0603E-R24□	0.24	5 , 10	17	7.9	1050	0.19	1300	VIO
SMDFSR0603E-R27□	0.27	5 , 10	17	7.9	1050	0.30	1050	GRY
SMDFSR0603E-R33□	0.33	5 , 10	17	7.9	850	0.46	1200	WHT
SMDFSR0603E-R39□	0.39	5 , 10	17	7.9	810	0.51	1200	BLK
SMDFSR0603E-R47□	0.47	5 , 10	17	7.9	720	0.62	1050	BRN
SMDFSR0603E-R56□	0.56	5 , 10	17	7.9	600	0.44	850	RED
SMDFSR0603E-R68□	0.68	5 , 10	17	7.9	600	0.52	850	ORN
SMDFSR0603E-R78□	0.78	5 , 10	17	7.9	460	0.83	850	YEL
SMDFSR0603E-R82□	0.82	5 , 10	17	7.9	480	0.69	750	GRN
SMDFSR0603E-1R0□	1.0	5 , 10	18	7.9	310	0.81	600	BLU
SMDFSR0603E-1R2□	1.2	5 , 10	17	7.9	270	0.87	550	VIO
SMDFSR0603E-1R5□	1.5	5 , 10	17	7.9	270	1.06	540	GRY
SMDFSR0603E-1R8□	1.8	5 , 10	17	7.9	230	1.10	520	WHT
SMDFSR0603E-2R2□	2.2	5 , 10	17	7.9	140	1.20	500	BLK
SMDFSR0603E-2R7□	2.7	5 , 10	17	7.9	105	1.50	480	BRN
SMDFSR0603E-3R3□	3.3	5 , 10	17	7.9	84	1.50	440	RED
SMDFSR0603E-3R9□	3.9	5 , 10	17	7.9	80	1.60	430	ORN
SMDFSR0603E-4R7□	4.7	5 , 10	18	7.9	69	2.10	420	YEL
SMDFSR0603E-5R6□	5.6	5 , 10	18	7.9	65	2.60	400	GRN
SMDFSR0603E-6R8□	6.8	5 , 10	19	7.9	55	3.10	400	BLU
SMDFSR0603E-8R2□	8.2	5 , 10	17	7.9	42	3.60	400	GRY
SMDFSR0603E-100□	10	5 , 10	19	7.9	40	4.80	300	WHT

Typical performance curves :

Inductance vs Frequency Curve



Q vs Frequency Curve

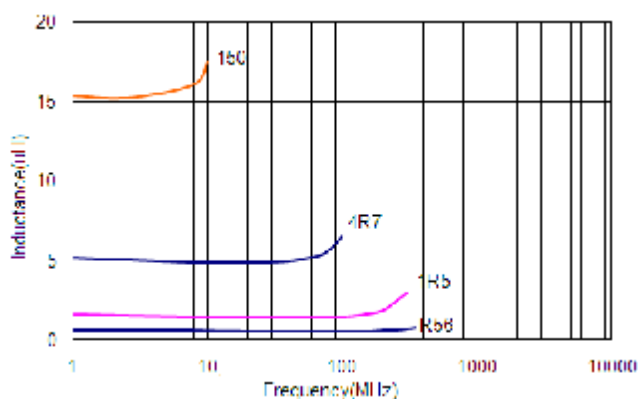


● SMDFSR0805 series

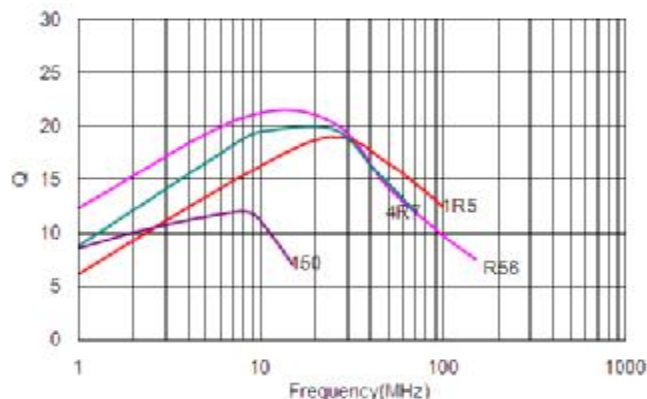
Part No.	Inductance L (uH)	Tolerance (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMDFSR0805-R47□	0.47	5, 10, 20	10	25.2	450	0.40	500
SMDFSR0805-R56□	0.56	5, 10, 20	10	25.2	450	0.40	500
SMDFSR0805-R68□	0.68	5, 10, 20	10	25.2	400	0.60	500
SMDFSR0805-R82□	0.82	5, 10, 20	10	25.2	400	0.80	500
SMDFSR0805-1R0□	1.0	5, 10, 20	10	7.96	360	1.00	430
SMDFSR0805-1R2□	1.2	5, 10, 20	10	7.96	350	1.15	410
SMDFSR0805-1R5□	1.5	5, 10, 20	10	7.96	300	1.20	400
SMDFSR0805-1R8□	1.8	5, 10, 20	10	7.96	200	1.35	380
SMDFSR0805-2R2□	2.2	5, 10, 20	10	7.96	170	1.50	350
SMDFSR0805-2R7□	2.7	5, 10, 20	10	7.96	100	1.70	320
SMDFSR0805-3R3□	3.3	5, 10, 20	10	7.96	90	1.80	300
SMDFSR0805-3R9□	3.9	5, 10, 20	10	7.96	90	1.95	280
SMDFSR0805-4R7□	4.7	5, 10, 20	10	7.96	85	2.05	250
SMDFSR0805-5R6□	5.6	5, 10, 20	10	7.96	70	2.30	240
SMDFSR0805-6R8□	6.8	5, 10, 20	10	7.96	55	2.60	220
SMDFSR0805-8R2□	8.2	5, 10, 20	10	7.96	50	3.00	180
SMDFSR0805-100□	10	5, 10, 20	8	2.52	30	3.20	150
SMDFSR0805-120□	12	5, 10, 20	8	2.52	17	3.50	110
SMDFSR0805-150□	15	5, 10, 20	8	2.52	16	4.20	100
SMDFSR0805-180□	18	5, 10, 20	8	2.52	15	4.50	95
SMDFSR0805-220□	22	5, 10, 20	8	2.52	14	6.00	80

Typical performance curves :

Inductance vs Frequency Curve



Q vs Frequency Curve

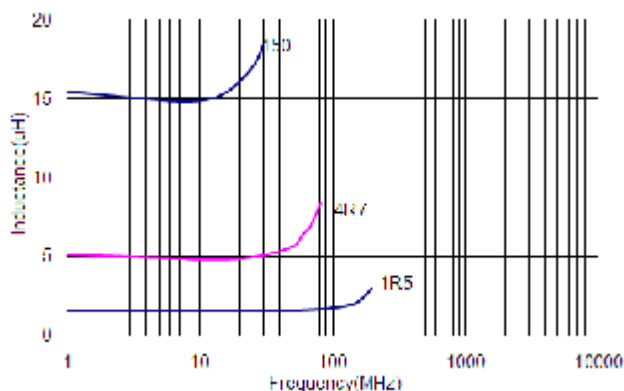


● SMDFSR1008 series

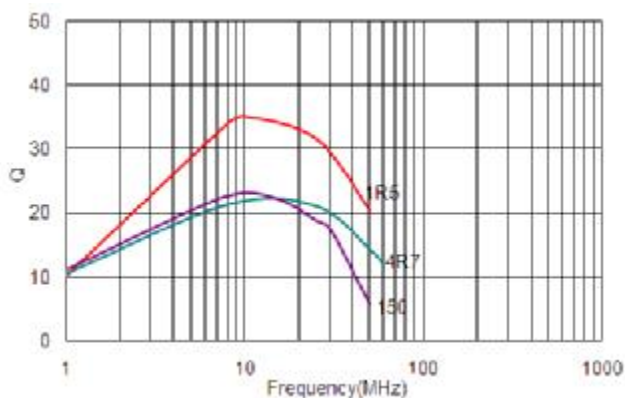
Part No.	Inductance L (uH)	Tolerance (±%)	Q Min.	Test Freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
SMDFSR1008-R68□	0.68	10, 20	12	25.2	330	0.45	600
SMDFSR1008-R82□	0.82	10, 20	12	25.2	300	0.62	600
SMDFSR1008-1R0□	1.0	5, 10, 20	12	25.2	300	0.55	580
SMDFSR1008-1R2□	1.2	5, 10, 20	12	7.96	250	0.75	550
SMDFSR1008-1R5□	1.5	5, 10, 20	12	7.96	230	0.85	400
SMDFSR1008-1R8□	1.8	5, 10, 20	12	7.96	168	0.95	320
SMDFSR1008-2R2□	2.2	5, 10, 20	12	7.96	150	1.30	315
SMDFSR1008-2R7□	2.7	5, 10, 20	12	7.96	100	1.40	300
SMDFSR1008-3R3□	3.3	5, 10, 20	12	7.96	80	1.50	280
SMDFSR1008-3R9□	3.9	5, 10, 20	12	7.96	60	1.55	250
SMDFSR1008-4R7□	4.7	5, 10, 20	12	7.96	50	1.75	210
SMDFSR1008-5R6□	5.6	5, 10, 20	12	7.96	40	1.90	190
SMDFSR1008-6R8□	6.8	5, 10, 20	12	7.96	35	2.00	175
SMDFSR1008-8R2□	8.2	5, 10, 20	12	7.96	25	2.20	160
SMDFSR1008-100□	10	5, 10, 20	10	2.52	25	2.50	155
SMDFSR1008-120□	12	5, 10, 20	10	2.52	20	2.60	145
SMDFSR1008-150□	15	5, 10, 20	10	2.52	20	3.00	130
SMDFSR1008-180□	18	5, 10, 20	10	2.52	20	3.00	130
SMDFSR1008-220□	22	5, 10, 20	10	2.52	18	3.90	105
SMDFSR1008-270□	27	5, 10, 20	10	2.52	10	4.00	100
SMDFSR1008-330□	33	5, 10, 20	10	2.52	8	4.80	85
SMDFSR1008-390□	39	5, 10, 20	10	2.52	7	5.00	80
SMDFSR1008-470□	47	5, 10, 20	10	2.52	7	5.70	60
SMDFSR1008-560□	56	5, 10, 20	10	2.52	6.5	6.00	55
SMDFSR1008-680□	68	5, 10, 20	10	2.52	6.5	6.70	50
SMDFSR1008-820□	82	5, 10, 20	10	2.52	6.5	7.50	45
SMDFSR1008-101□	100	5, 10, 20	8	0.796	4.5	11.0	40

Typical performance curves :

Inductance vs Frequency Curve



Q vs Frequency Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

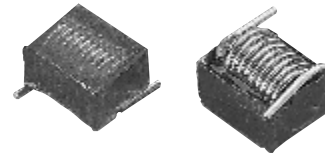


SMTSC SERIES

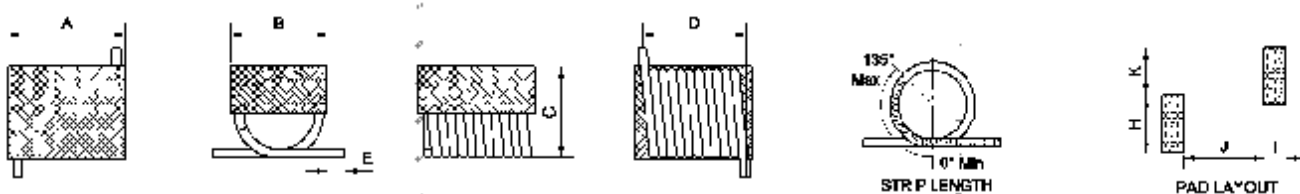
SURFACE MOUNT SPRING COILS

Applications :

- Satellite communication systems.
- TVs and audio equipment.
- Microwave equipment.
- Band pass equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	Item	H	I	J	K
SMTSC0403	3.68MAX.	3.05MAX	3.18 MAX	2.92±0.25	SMTSC0403	3.30	1.27	1.65	2.79
SMTSC0504	4.95MAX	3.81MAX	4.20MAX	4.32±0.39	SMTSC0504	5.16	1.48	2.85	2.62
SMTSC0703	6.86MAX	3.05 MAX	3.18 MAX	5.84±0.25	SMTSC0703	3.30	1.27	4.70	2.79
SMTSC1006	10.55MAX	6.35MAX	5.97MAX	7.98±0.51	SMTSC1006	4.70	2.04	5.95	2.42

Features :

- High Q over a wide frequency range.
- Jacket with a high temperature material which assures mechanical stability and very close tolerance .
- Forms a flat top making them suitable for automatic placement and reflow .
- Tinned leads assure reliable soldering.
- Standard EIA tape and reel packing.

Characteristics :

- Rated Current : The current when temperature of coil increase up to max. $\Delta T = 15^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Operating temperature : -40°C to 125°C .

Product Identification :

SMTSC 0403 - 18N5 J

(1) (2) (3) (4)

(1)Type : **Surface Mount Type Spring Coils.**

(2)Style : **L=3.86mm W=3.05mm H=3.18mm**

(3)Inductance : **18N5** for **18.5 nH** .

(4)Inductance tolerance : **J** : $\pm 5\%$; **K**: $\pm 10\%$.

Test equipments :

- Inductance measured at 0Adc on an HP 4284A LCR Meter or equivalent.
- DCR measured on a Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .

● SMTSC series

Part No.	Turns	Inductance L (nH)	Quality Factor Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (mΩ) Max.	Rated Current (mA) Max.
SMTSC0403 -2N5K	1	2.5	145	150	12500(ref)	1.1	4.0
SMTSC0403 -5N0K	2	5.0	140	150	6500(ref)	1.8	4.0
SMTSC0403 -8N0J	3	8.0	140	150	5000(ref)	2.6	4.0
SMTSC0403 -12N5J	4	12.5	137	150	3300(ref)	3.4	4.0
SMTSC0403 -18N5J	5	18.5	132	150	2500(ref)	3.9	4.0

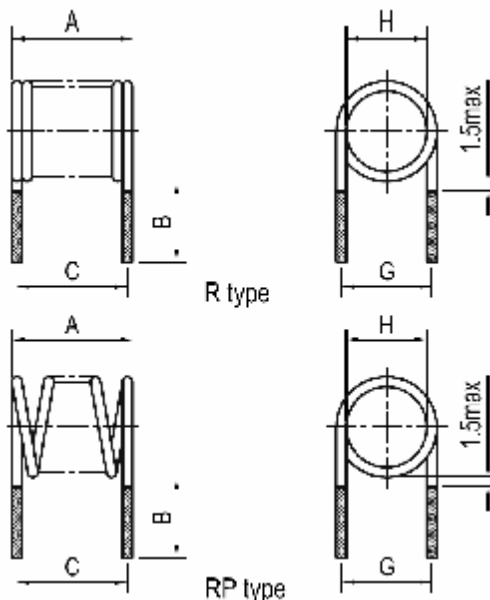
SMTSC0504 -22NJ	5	22	100	150	3200(ref)	4.2	3.0
SMTSC0504 -27NJ	5	27	100	150	2700(ref)	4.0	3.5
SMTSC0504 -33NJ	6	33	100	150	2500(ref)	4.8	3.0
SMTSC0504 -39NJ	6	39	100	150	2100	4.4	3.0
SMTSC0504 -47NJ	7	47	100	150	2100	5.6	3.0
SMTSC0504 -56NJ	7	56	100	150	1500	6.2	3.0
SMTSC0504 -68NJ	8	68	100	150	1500	8.2	2.5
SMTSC0504 -82NJ	8	82	100	150	1300	9.4	2.5
SMTSC0504 -R10J	9	100	100	150	1200	12.3	1.7
SMTSC0504 -R12J	10	120	100	150	1100	17.3	1.5

SMTSC0703 -17N5J	6	17.5	100	150	2200	4.5	4.0
SMTSC0703 -22NJ	7	22.0	102	150	2100	5.2	4.0
SMTSC0703 -28NJ	8	28.0	105	150	1800	6.0	4.0
SMTSC0703 -35N5J	9	35.5	112	150	1500	6.8	4.0
SMTSC0703 -43NJ	10	43.0	106	150	1200	7.9	4.0

SMTSC1006 -90NJ	9	90	95	50	1140	15.0	3.5
SMTSC1006 -R111J	10	111	87	50	1020	15.0	3.5
SMTSC1006 -R130J	11	130	87	50	900	20.0	3.0
SMTSC1006 -R169J	12	169	95	50	875	25.0	3.0
SMTSC1006 -R206J	13	206	95	50	800	30.0	3.0
SMTSC1006 -R222J	14	222	92	50	730	35.0	3.0
SMTSC1006 -R246J	15	246	95	50	685	35.0	3.0
SMTSC1006 -R307J	16	307	95	50	660	35.0	3.0
SMTSC1006 -R380J	17	380	95	50	590	50.0	2.5
SMTSC1006 -R422J	18	422	95	50	540	60.0	2.5
SMTSC1006 -R491J	19	491	95	50	535	65.0	2.0
SMTSC1006 -R538J	20	538	87	50	490	90.0	2.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

Shape and size : (Dimensions are in mm)



Features :

- Low cost inductors.
- Use in many high frequency applications.
- Wound to customer's specification.
- Use Frequency up to 1 GHz.
- Rated current can be upto 50 Amp.
- Wire Gauge from 0.20mm to 3.2 mm.

Ordering information :

SC - 0.6 X 4.5 X 2.5 T - 6 R V

(1) (2) (3) (4) (5) (6) (7)

(1) Type : **Air** coil.

(2) Wire Gauge : **0.60** mm.

(3) Internal Diameter : **4.5** mm.

(4) Number of turns : **2.5** T.

(5) Lead length : **6.0** mm Ref .

(6) Winding direction : "**R**" is Clockwise.

"**L**" is Counter Clockwise.

(7) Structure : "**V**" is Vertical ; No code is Horizontal.

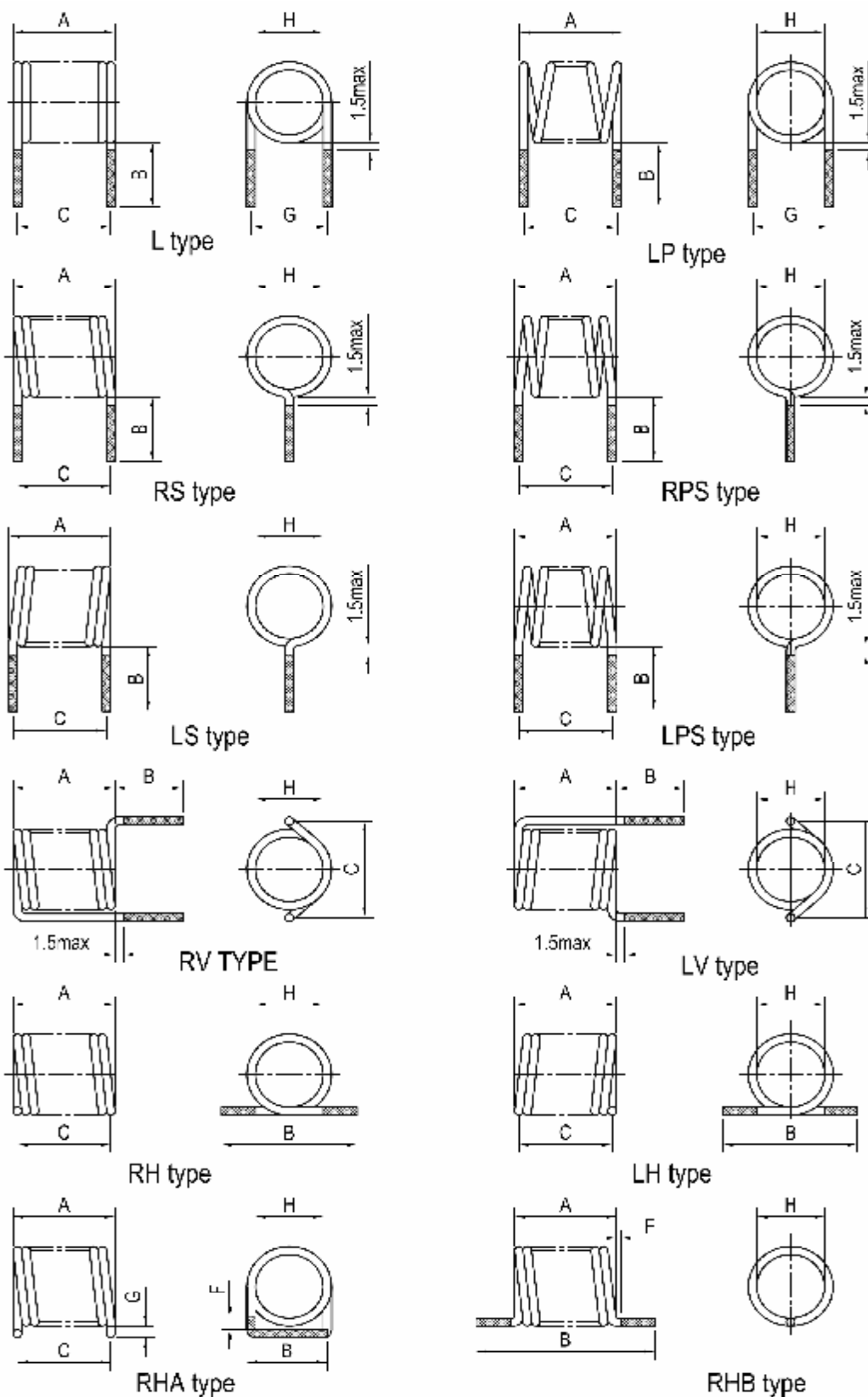
Characteristics :

- Frequency : Upto 1 GHz.
- Rated current : Upto 50 Amps.
- Operating temperature : -55 °C to 105°C.
- Winding : Clockwise (C.W.).
Counter Clockwise (C.C.W.).
- Variable pitch and length.
- Leads : Pretinned, Formed leads.
- Coil Length : To customer specification .

Applications :

- Satellite communication systems .
- Microwave equipment .
- Television Circuits .
- AM / FM radio receivers / transmitters .
- Test equipment .
- Band pass filters .

Others shape and size : (Dimensions are in mm)





SMTTC SERIES

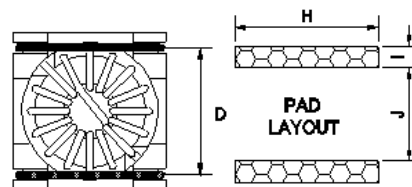
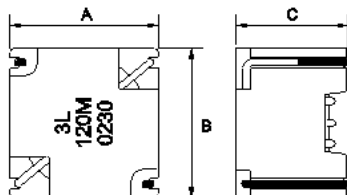
SMT TOROIDS POWER CHOKES.

Applications :

- Computer and portable power devices.
- Energy storage applications.
- DC/DC converters.
- Input – output filter application.



Shape and Dimensions (Dimensions are in mm) :



Item	A(MAX)	B(MAX)	C(MAX)
SMTTC30	11.05	11.18	9.50
SMTTC38	14.22	14.35	9.50
SMTTC44	14.99	15.62	10.50
SMTTC50	17.02	17.78	10.50

Item	D	H	I	J
SMTTC30	8.89	10.16	1.52	9.14
SMTTC38	11.43	13.21	1.52	11.68
SMTTC44	12.70	13.97	1.52	12.95
SMTTC50	14.73	15.75	1.52	14.99

Features :

- High current with closed magnetic path eliminate stray electromagnetic emissions.
- Self-leaded design ensure rugged reliability.
- Ideal inductors for DC-DC conversion.
- Base material meets flammability requirements of UL 94-V0.
- In addition to the standard values shown, 3L can custom engineer parts for specific applications.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C).
- Operating temperature : -20°C to 105°C.

Product identification :

SMT TC30 - 18 - 120 M

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type.
- (2) Style : 0.3 Inch size Toroids.
- (3) Materials: Refer to the next page.
- (4) Inductance : Example : 120 for 12.0 uH.
- (5) Inductance tolerance : M : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on an HP 4284A LCR Meter @100kHz 0.1V.
- DCR measured on a Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.



I SMTTC30 series

Part No.	L (uH) ±20%	DCR (mΩ) Max.	SRF (MHz) Typ.	I sat (A) Typ.	I rms (A) Max.
SMTTC30 - 8/90 - 1R8M	1.8	12.0	140	12	5.5
SMTTC30 - 8/90 - 3R3M	3.3	19.9	110	10	4.8
SMTTC30 - 8/90 - 6R8M	6.8	47.2	55	6.5	2.8
SMTTC30 - 8/90 - 220M	22	166	15	3.5	1.4
SMTTC30 - 8/90 - 101M	100	640	5.0	1.6	0.94
SMTTC30 - 18 - 2R7M	2.7	12.0	125	7.4	5.5
SMTTC30 - 18 - 5R2M	5.2	19.9	102	5.4	4.8
SMTTC30 - 18 - 120M	12	47.2	52	3.5	2.8
SMTTC30 - 18 - 350M	35	166	12	2.0	1.4
SMTTC30 - 18 - 171M	170	640	4.0	0.95	0.94
SMTTC30 - 52 - 3R6M	3.6	12.0	150	5.0	5.5
SMTTC30 - 52 - 6R8M	6.8	19.9	110	3.7	4.8
SMTTC30 - 52 - 150M	15	47.2	45	2.5	2.8
SMTTC30 - 52 - 470M	47	166	14	1.4	1.4
SMTTC30 - 52 - 221M	220	640	4.2	0.64	0.94
SMTTC30 - M125 - 6R0M	6.0	12.0	95	4.6	5.5
SMTTC30 - M125 - 120M	12	19.9	75	3.4	4.8
SMTTC30 - M125 - 220M	22	47.2	50	2.4	2.8
SMTTC30 - M125 - 820M	82	166	10	1.3	1.4
SMTTC30 - M125 - 391M	390	640	3	0.60	0.94

I SMTTC38 series

SMTTC38 - 8/90 - 1R5M	1.5	9.3	133	18	8.0
SMTTC38 - 8/90 - 3R3M	3.3	18.7	73	12	5.4
SMTTC38 - 8/90 - 8R2M	8.2	63	24	7.5	2.7
SMTTC38 - 8/90 - 270M	27	290	12	4.0	1.3
SMTTC38 - 8/90 - 101M	100	657	4.0	2.1	0.90
SMTTC38 - 18 - 3R8M	3.8	9.3	133	8.8	8.0
SMTTC38 - 18 - 7R5M	7.5	18.7	73	5.8	5.4
SMTTC38 - 18 - 220M	22	63	34	3.5	2.7
SMTTC38 - 18 - 730M	73	290	5.0	2.0	1.3
SMTTC38 - 18 - 291M	290	657	2.0	0.98	0.90
SMTTC38 - 52 - 4R7M	4.7	9.3	133	6.5	8.0
SMTTC38 - 52 - 100M	10	18.7	62	4.4	5.4
SMTTC38 - 52 - 330M	33	63	25	2.4	2.7
SMTTC38 - 52 - 101M	100	290	5.0	1.4	1.3
SMTTC38 - 52 - 391M	390	657	1.8	0.71	0.90
SMTTC38 - M125 - 6R8M	6.8	9.3	133	6.2	8.0
SMTTC38 - M125 - 150M	15	18.7	58	4.2	5.4
SMTTC38 - M125 - 390M	39	63	18	2.6	2.7
SMTTC38 - M126 - 121M	120	290	4.0	1.6	1.3
SMTTC38 - M127 - 471M	470	657	1.2	0.74	0.90



I SMTTC44 series

Part No.	L (uH) ±20%	DCR (mΩ) Max.	SRF (MHz) Typ.	I sat (A) Typ.	I rms (A) Max.
SMTTC44 - 8/90 - 5R6M	5.6	16.2	65	11.0	7.8
SMTTC44 - 8/90 - 100M	10.0	23.6	40	9.0	5.5
SMTTC44 - 8/90 - 150M	15.0	39.0	25	7.4	4.0
SMTTC44 - 8/90 - 270M	27.0	85.0	12	5.4	2.7
SMTTC44 - 8/90 - 681M	680	1908	1.4	1.0	0.70
SMTTC44 - 18 - 7R9M	7.9	16.2	49	6.6	7.8
SMTTC44 - 18 - 140M	14.0	23.6	33	5.2	5.5
SMTTC44 - 18 - 220M	22.0	39.0	23	4.1	4.0
SMTTC44 - 18 - 410M	41.0	85.0	9.5	3.0	2.7
SMTTC44 - 18 - 112M	1100	2500	1.2	0.58	0.70
SMTTC44 - 52 - 120M	12	16.2	62	4.5	7.8
SMTTC44 - 52 - 180M	18	23.6	35	3.5	5.5
SMTTC44 - 52 - 270M	27	39.0	26	2.8	4.0
SMTTC44 - 52 - 560M	56	85.0	9.0	2.0	2.7
SMTTC44 - 52 - 152M	1500	1908	0.85	0.39	0.70
SMTTC44 - M125 - 180M	18	16.2	49	4.3	7.8
SMTTC44 - M125 - 270M	27	23.6	33	3.4	5.5
SMTTC44 - M125 - 470M	47	39.0	23	2.6	4.0
SMTTC44 - M125 - 101M	100	85.0	7.5	1.8	2.7
SMTTC44 - M125 - 222M	2200	1908	0.60	0.38	0.70

I SMTTC50 series

SMTTC50 - 8/90 - 100M	10	19.7	35	9.0	7.2
SMTTC50 - 8/90 - 150M	15	32	27	7.5	5.1
SMTTC50 - 8/90 - 470M	47	133	7.0	4.3	2.6
SMTTC50 - 8/90 - 101M	100	220	3.8	2.9	2.0
SMTTC50 - 8/90 - 152M	1500	1932	0.72	0.76	0.71
SMTTC50 - 18 - 160M	16	19.7	24	5.4	7.2
SMTTC50 - 18 - 260M	26	32	11	4.3	5.1
SMTTC50 - 18 - 730M	73	133	4.5	2.5	2.6
SMTTC50 - 18 - 151M	150	220	2.6	1.8	2.0
SMTTC50 - 18 - 202M	2000	1932	0.60	0.50	0.71
SMTTC50 - 52 - 180M	18	19.7	35	4.4	7.2
SMTTC50 - 52 - 270M	27	32	27	3.6	5.1
SMTTC50 - 52 - 101M	100	133	5.2	1.9	2.6
SMTTC50 - 52 - 221M	220	220	2.2	1.3	2.0
SMTTC50 - 52 - 272M	2700	1932	0.50	0.37	0.71
SMTTC50 - M125 - 330M	33	19.7	19	3.5	7.2
SMTTC50 - M125 - 470M	47	32	16	2.8	5.1
SMTTC50 - M125 - 151M	150	133	3.6	1.6	2.6
SMTTC50 - M125 - 331M	330	220	2.0	1.2	2.0
SMTTC50 - M125 - 472M	4700	1932	0.45	0.31	0.71

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



TC/TB SERIES

TOROIDAL COILS.

Applications :

- Power supplies. Switching Circuits.
- SCR and Triac Controls. Output chokes.
- EMI / RFI chokes.
- Other filter .

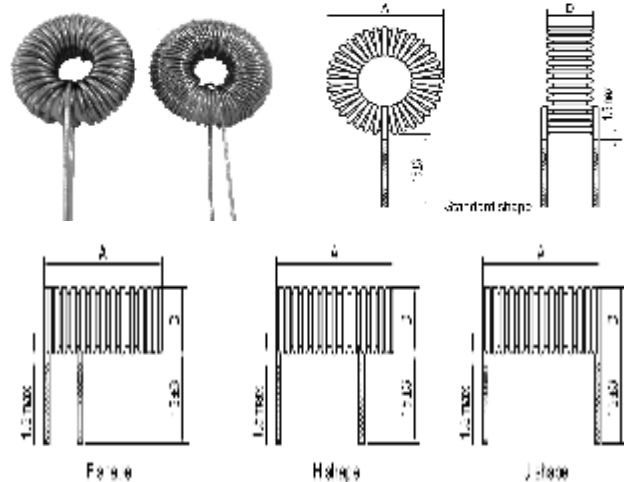
Features :

- Useful in a wide variety of power conversion and line filter applications .
- Cost effective design.
- Low volume hand wound to high volume automatic machine wound.
- 130°C or 155°C UEW-NY wire.
- High saturation current.
- Customer's specifications are welcome.

Characteristics :

- Temperature Rise Current(I_{rms}): The current when when temperature of coil increase up to max.
 $\Delta T = 40^\circ\text{C}$. (T_a = 20°C)
- Operating temperature : -55 °C to 125 °C.

Shape and Dimensions(unit:mm):



Product Identification :

TC - 101 M - 2A - 5026 - F

(1) (2) (3) (4) (5) (6)

(1) Type: Toroidal Coils; "TB": TC with Base;

"TBV"- Vertical; "TBH"- Horizontal

(2) Inductance: Example : **101** for 100 uH

(3) Inductance tolerance: **K** : ±10% ; **M** : ± 20% .

(4) Rated current: **2.0**Amps .

(5) Core style : **OD** =0.5"(12.7mm). "**26**" is material.

(6) Shape: "**F. H. U**" shape; No code is standard shape.

Test equipments and test setup :

- L : HP4284A LCR meter or equal.
- L load: HP4284A with HP42841A.
- DCR : Milli-Ω meter .
- Electrical specifications at 25°C.

I TC series

Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I _{rms} (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I _{dc} =0A (uH)	At I _{dc} (uH)			A Max.	D Max.		
TC - 5R0M - 0.5A - 2026	5	4.9	0.007	0.5	7.5	4.5	0.4	Manual
TC - 9R0M - 0.3A - 2026	9	8.8	0.110	0.3	8.0	4.5	0.2	Manual
TC - 150M - 0.5A - 2026	15	13.5	0.070	0.5	7.5	4.5	0.4	Manual
TC - 200M - 0.2A - 2026	20	19.8	0.198	0.2	7.5	4.0	0.2	Manual
TC - 270M - 0.1A - 2026	27	27	0.033	0.1	7.5	4.0	0.2	Manual
TC - 270M - 0.3A - 2026	27	25.5	0.135	0.3	7.5	4.0	0.2	Manual
TC - 100M - 2A - 3026	10	7.7	0.017	2.0	11.0	6.5	1.6	Manual
TC - 120M - 1A - 3026	12	10.7	0.040	1.0	10.5	6.0	1.2	Manual
TC - 320M - 1A - 3026	32	25	0.058	1.0	10.5	6.0	1.4	Manual
TC - 370M - 0.5A - 3026	37	33.7	0.134	0.5	10.0	5.5	1.0	Manual

Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I _{rms} (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I _{dc} =0A (uH)	At I _{dc} (uH)			A Max.	D Max.		
TC - 141M - 0.5A - 3026	140	107	0.265	0.5	10.0	6.0	1.2	Manual
TC - 8R2M - 2A - 3726	8.2	7.2	0.017	2.0	12.5	6.0	2.0	Manual
TC - 220M - 2A - 3726	22	17	0.030	2.0	14.5	7.5	2.4	Manual
TC - 240M - 1A - 3726	24	22	0.046	1.0	12.0	5.5	1.6	Manual
TC - 560M - 0.5A - 3726	56	53	0.181	0.5	12.5	5.5	1.4	Manual
TC - 680M - 1A - 3726	68	53	0.090	1.0	12.0	6.0	2.0	Manual
TC - 241M - 0.5A - 3726	240	190	0.039	0.5	12.0	6.0	1.6	Manual
TC - 150M - 2A - 4426	15	12.6	0.023	2.0	14.0	7.0	2.8	Manual
TC - 430M - 1A - 4426	43	37	0.074	1.0	14.0	6.5	2.6	Manual
TC - 680M - 2A - 4426	68	42	0.045	2.0	14.5	8.0	3.8	Manual
TC - 111M - 0.5A - 4426	110	100	0.250	0.5	14.0	6.5	2.4	Machine
TC - 141M - 1A - 4426	140	104	0.140	1.0	14.0	7.5	3.2	Machine
TC - 361M - 0.5A - 4426	360	285	0.045	0.5	14.0	6.5	2.8	Machine
TC - 200M - 3A - 5026	20	15	0.021	3.0	16.5	9.0	4.4	Manual
TC - 300M - 2A - 5026	30	25	0.035	2.0	16.0	8.0	4.0	Manual
TC - 600M - 3A - 5026	60	35	0.038	3.0	17.0	9.0	5.8	Manual
TC - 680M - 1A - 5026	68	60	0.101	1.0	16.0	7.5	3.6	Machine
TC - 101M - 2A - 5026	100	63	0.080	2.0	16.0	9.0	5.2	Manual
TC - 221M - 1A - 5026	220	162	0.170	1.0	16.5	8.0	4.4	Machine
TC - 220M - 5A - 6026	22	15	0.013	5.0	21.0	10.5	8.0	Manual
TC - 290M - 4A - 6026	29	20	0.020	4.0	19.0	9.0	7.8	Manual
TC - 350M - 3A - 6026	35	28	0.035	3.0	20.5	10.5	7.6	Manual
TC - 580M - 2A - 6026	58	45	0.050	2.0	19.0	10.0	7.2	Manual
TC - 900M - 3A - 6026	90	52.5	0.044	3.0	20.5	12.5	9.2	Manual
TC - 111M - 2A - 6026	110	79	0.069	2.0	18.5	10.0	8.0	Manual
TC - 131M - 1A - 6026	130	116	0.180	1.0	19.0	9.0	6.4	Machine
TC - 471M - 1A - 6026	470	310	0.350	1.0	19.5	10.0	7.6	Machine
TC - 250M - 5A - 6826	25	18	0.016	5.0	22.0	9.0	9.2	Manual
TC - 320M - 4A - 6826	32	24	0.021	4.0	22.0	9.0	9.0	Manual
TC - 430M - 3A - 6826	43	30	0.028	3.0	21.0	8.5	8.8	Manual
TC - 650M - 4A - 6826	65	55	0.055	2.0	22.0	9.0	8.2	Manual
TC - 111M - 4A - 6826	110	56	0.042	4.0	23.0	11.0	11.4	Manual
TC - 131M - 3A - 6826	130	77	0.055	3.0	23.0	10.5	10.6	Manual
TC - 151M - 1A - 6826	150	137	0.160	1.0	21.5	9.0	7.6	Machine
TC - 231M - 2A - 6826	230	148	0.108	2.0	22.5	9.5	9.8	Machine
TC - 501M - 1A - 6826	500	355	0.300	1.0	22.0	9.0	8.6	Machine
TC - 500M - 5A - 8026	50	33	0.022	5.0	24.5	10.0	14.2	Manual
TC - 600M - 4A - 8026	60	42	0.030	4.0	25.0	11.0	13.7	Manual
TC - 750M - 3A - 8026	75	54	0.039	3.0	24.0	11.0	13.0	Manual
TC - 820M - 3A - 8026	82	60	0.042	3.0	24.0	10.5	13.0	Manual
TC - 101M - 5A - 8026	100	53	0.033	5.0	25.0	11.5	16.8	Manual
TC - 111M - 2A - 8026	110	90	0.074	2.0	25.5	10.0	12.0	Machine
TC - 151M - 5A - 8026	150	68	0.042	5.0	25.0	13.0	18.0	Manual
TC - 221M - 4A - 8026	220	105	0.059	4.0	26.0	13.0	17.9	Manual
TC - 271M - 3A - 8026	270	140	0.100	3.0	27.0	11.5	16.6	Machine
TC - 321M - 2A - 8026	320	193	0.131	2.0	27.0	11.0	14.0	Machine

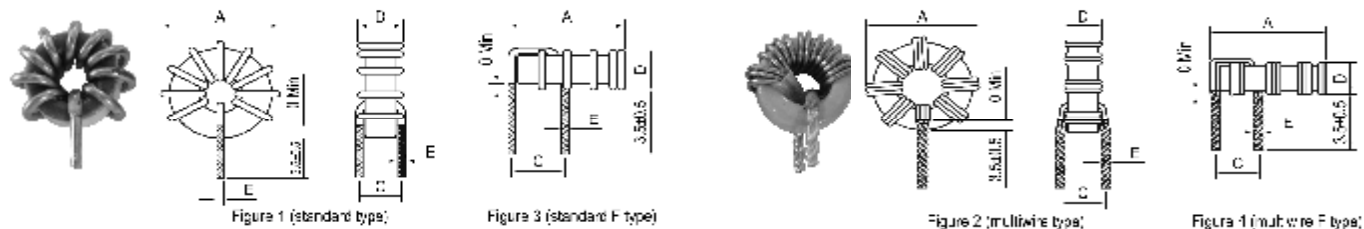
Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I _{rms} (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I _{dc} =0A (uH)	At I _{dc} (uH)			A Max.	D Max.		
TC - 431M - 2A - 8026	430	246	0.145	2.0	26.0	11.0	15.0	Machine
TC - 961M - 1A - 8026	960	625	0.450	1.0	26.0	11.0	13.0	Machine
TC - 900M - 5A - 9026	90	54	0.034	5.0	28.0	14.5	23.6	Manual
TC - 141M - 3A - 9026	140	98	0.082	3.0	29.0	13.0	22.0	Machine
TC - 201M - 2A - 9026	200	154	0.114	2.0	28.5	13.0	20.8	Machine
TC - 321M - 5A - 9026	320	120	0.068	5.0	29.0	16.0	29.6	Manual
TC - 451M - 2A - 9026	450	280	0.174	2.0	29.0	14.0	23.0	Machine
TC - 471M - 1A - 9026	470	398	0.354	1.0	26.5	13.0	19.5	Machine
TC - 471M - 3A - 9026	470	225	0.150	3.0	29.5	14.0	27.0	Machine
TC - 182M - 1A - 9026	1800	1130	0.680	1.0	27.5	14.0	22.4	Machine
TC - 820M - 5A - 9426	82	52	0.033	5.0	31.0	15.5	22.4	Manual
TC - 101M - 4A - 9426	100	69	0.042	4.0	29.5	13.5	21.9	Manual
TC - 131M - 3A - 9426	130	96	0.061	3.0	29.0	13.0	21.6	Machine
TC - 221M - 2A - 9426	220	170	0.121	2.0	28.5	12.0	20.6	Machine
TC - 301M - 5A - 9426	300	120	0.064	5.0	30.0	15.5	28.8	Manual
TC - 391M - 4A - 9426	390	165	0.088	4.0	29.5	15.0	27.2	Manual
TC - 471M - 1A - 9426	470	400	0.342	1.0	27.5	11.5	19.0	Machine
TC - 501M - 3A - 9426	500	242	0.124	3.0	31.0	14.5	26.0	Machine
TC - 781M - 2A - 9426	780	428	0.220	2.0	30.0	13.5	24.1	Machine
TC - 132M - 1A - 9426	1300	933	0.585	1.0	28.5	12.5	21.2	Machine
TC - 300M - 10A - 10626	30	21	0.009	10.0	36.0	19.5	42.0	Manual
TC - 350M - 10A - 10626	35	25	0.010	10.0	36.0	19.5	43.0	Manual
TC - 560M - 7A - 10626	56	41.5	0.020	7.0	34.0	18.0	40.0	Manual
TC - 680M - 7A - 10626	68	46	0.021	7.0	34.0	18.0	40.0	Manual
TC - 820M - 7A - 10626	82	53	0.023	7.0	34.0	18.0	41.0	Manual
TC - 101M - 5A - 10626	100	75	0.036	5.0	33.5	17.0	39.0	Manual
TC - 151M - 4A - 10626	150	110	0.053	4.0	32.5	16.5	38.4	Manual
TC - 201M - 3A - 10626	200	157	0.078	3.0	34.0	15.0	37.8	Machine
TC - 301M - 2A - 10626	300	250	0.150	2.0	34.0	15.0	37.8	Machine
TC - 851M - 2A - 10626	850	567	0.300	2.0	35.0	16.5	41.8	Machine
TC - 750M - 10A - 13026	75	43	0.014	10.0	42.0	19.5	64.0	Manual
TC - 131M - 7A - 13026	130	79	0.031	7.0	41.0	18.0	58.0	Manual
TC - 201M - 5A - 13026	200	134	0.056	5.0	39.0	17.0	55.6	Manual
TC - 251M - 10A - 13026	250	105	0.027	10.0	42.5	21.5	82.0	Manual
TC - 471M - 7A - 13026	470	190	0.064	7.0	40.5	19.5	72.0	Manual
TC - 681M - 5A - 13026	680	295	0.105	5.0	39.0	18.5	65.2	Manual

* Due to the limited space, the catalogue shows the typical specifications only.

For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

TC series

Shape and Dimensions(unit:mm) :



Part No.	L At Idc=0A (uH)	DCR (mΩ) Max.	Rated Current (A) Max.	Dimension (mm)				Fig
				A Max.	C ±1.0	D Max.	E	
TC - R82M - 10A - 3018	0.82	4.2	10	10.5	5.5	6.0	1.0±0.2	2
TC - R60M - 14A - 3818	0.6	2.2	14	13.0	7.0	7.5	1.4±0.2	2
TC - 1R0M - 10A - 3818	1.0	3.3	10	14.0	7.0	8.0	1.4±0.2	2
TC - 1R2M - 14A - 4453	1.2	3.0	14	15.5	5.5	8.0	1.1±0.1	1
TC - 2R2M - 10A - 4453	2.2	4.0	10	15.5	5.5	8.0	1.0±0.1	1
TC - R60M - 25A - 5018	0.6	1.4	25	16.5	7.5	8.0	1.6±0.3	2
TC - 1R2M - 18A - 5018	1.2	1.9	18	16.5	9.0	11.5	1.9±0.3	2
TC - 1R5M - 10A - 5052B	1.5	2.6	10	17.5	8.0	10.0	1.2±0.1	1
TC - 1R6M - 18A - 5053B	1.6	3.0	18	17.5	9.0	10.5	1.9±0.3	2
TC - 1R2M - 20A - 6018 - F	1.2	2.1	20	19.0	6.5	9.5	1.7±0.3	4
TC - 1R2M - 25A - 6053	1.2	1.9	25	19.0	9.0	9.5	1.9±0.3	2
TC - 2R2M - 15A - 6018	2.2	2.7	15	19.0	8.5	9.0	1.8±0.3	2
TC - 3R0M - 10A - 6052 - F	3.0	4.0	10	21.0	5.5	10.0	2.2±0.2	4

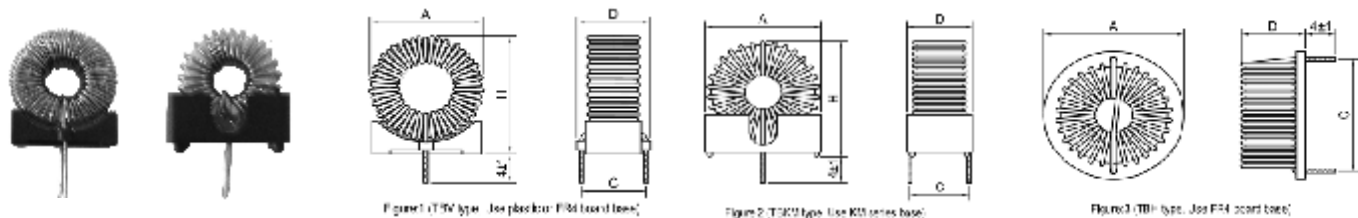
·These parts designed for computer main board. / Inductance measuring frequency: @200kHz 0.25V.

·Customer's specifications are welcome.

·Rated Current: Obtained when temperature rise to 40°C and the initial inductance drop by 20%.

I TBV/TBKM/TBH series

Shape and Dimensions(unit:mm) :



Part No.	Inductance		DCR (Ω) Max.	Irms (A) Max.	Dimension (mm)				Fig
	At Idc=0A (uH)	At Idc (uH)			A Max.	C ±0.5	D Max.	H Max.	
TBV - 3R3M - 2A - 3826	3.3	3.1	0.010	2.0	13.0	6.0	8.0	14.0	1
TBV - 5R0M - 2A - 3826	5.0	4.8	0.011	2.0	13.0	6.0	8.0	14.0	1
TBV - 200M - 3A - 6826	20.0	17.5	0.026	3.0	22.0	10.0	12.5	24.0	1
TBV - 101M - 3A - 6826	100.0	56.0	0.060	3.0	22.0	10.0	12.5	24.0	1
TBKM - 150M - 2A - 4426	15.0	12.6	0.023	2.0	15.0	5.6	9.0	18.0	2
TBKM - 680M - 2A - 4426	68.0	42.0	0.056	2.0	15.0	5.6	9.0	18.0	2
TBKM - 600M - 3A - 5026B	60.0	41.0	0.038	3.0	17.0	7.6	11.8	20.0	2
TBKM - 101M - 2A - 5026B	100.0	71.0	0.081	2.0	17.0	7.6	11.8	20.0	2
TBKM - 470M - 3A - 6826A	47.0	36.0	0.030	3.0	21.5	7.6	11.8	24.5	2
TBKM - 111M - 4A - 6826A	110.0	46.0	0.042	5.0	21.5	7.6	11.8	24.5	2
TBKM - 680M - 7A - 8026B	68.0	33.0	0.035	5.0	24.5	11.4	15.5	27.5	2
TBKM - 101M - 4A - 8026B	100.0	70.0	0.039	4.0	24.5	11.4	15.5	27.5	2
TBKM - 101M - 5A - 10626	100.0	75.0	0.036	5.0	32.0	12.7	18.2	35.0	2
TBKM - 201M - 3A - 10626	200.0	157.0	0.078	3.0	32.0	12.7	18.2	35.0	2
TBH - 471M - 3A - 9026	470.0	233.0	0.150	3.0	31.0	27.0	16.5		3

·Same overall size available with different material.

·Customer's specifications are welcome.

* Due to the limited space, the catalogue shows the typical specifications only.

For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.