



## SMTDRRI SERIES

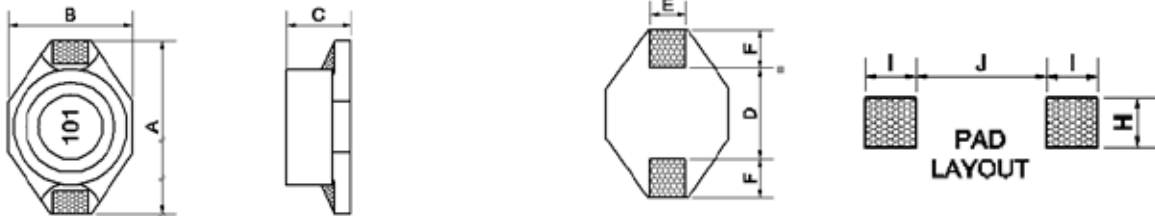
SHIELDED SMT POWER INDUCTORS.

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



● **SMTDRRI0402 series**

Part No.	Inductance L ( $\mu$ H)	Q	DCR ( $\Omega$ )		SRF Ref. ( MHz )	I rms ( A ) Max.
		Min.	Max.	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



● **SMTDRRI0804 series**

Part No.	Inductance L (μH)	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 series**

Part No.	Inductance L (μH)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
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](http://www.3lcoil.com) for better known.

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