



SMTDRRI SERIES

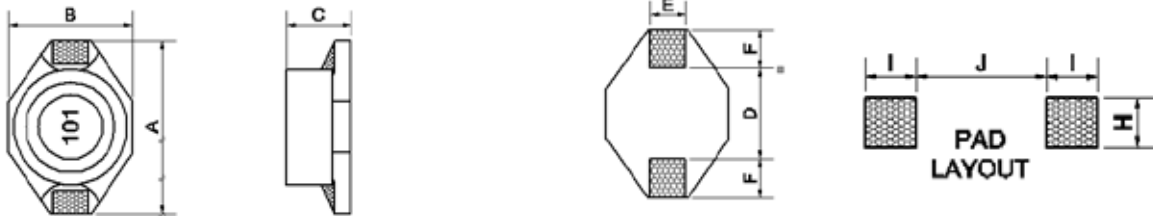
SHIELDED SMT POWER INDUCTORS.

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.
- DRRRI0402 can help achieve significantly longer battery life in handheld communication devices.
- DRRRI0804/1206 designed for the higher current requirements of portable computers.
- DRRRI0402 used ceramic base with gold-plating.
- DRRRI0804/1206 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 DRRRI0804 - 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 (μ H) | Q | DCR (Ω) | | 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 for better known.

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