

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

SPM Series SPM6530

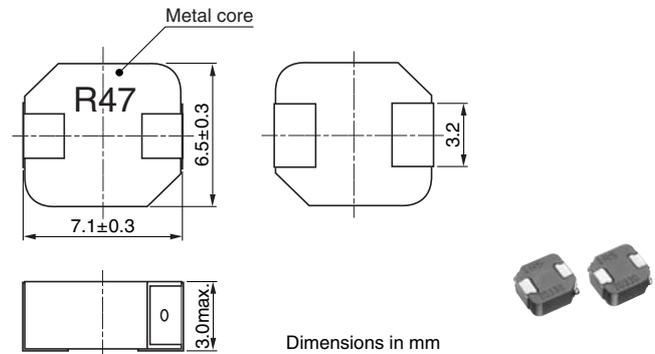
FEATURES

- Small footprint and Low profile design
Footprint: 7.1×6.5mm
Height: 3.0mm max.
- High power handling capability:
Small copper loss
Using large saturation induction of Fe-based metals
- Wide operating temperature range due to high Curie temperature of around 550°C.
- Available for automatic mounting in tape and reel package.

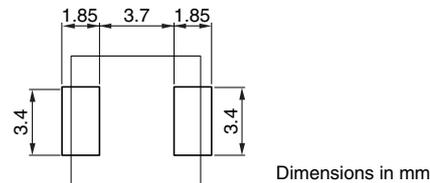
APPLICATIONS

- Note book type computers, VRMs, etc.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Inductance(μH) | | | Test frequency (kHz) | DC resistance (mΩ) | | Rated current(A)* | |
|------------------|----------------|---------------|---------------------------------|----------------------|--------------------|------|----------------------------|--------------------------------|
| | [at 0Adc] | tolerance (%) | Based on inductance change typ. | | max. | typ. | Based on inductance change | Based on temperature rise typ. |
| SPM6530T-R25M230 | 0.25 | ±20 | 0.2 | 100 | 2.31 | 2.1 | 28.5 | 23 |
| SPM6530T-R47M170 | 0.47 | ±20 | 0.38 | 100 | 3.63 | 3.3 | 20.5 | 20 |
| SPM6530T-R68M140 | 0.68 | ±20 | 0.54 | 100 | 5.39 | 4.9 | 16.6 | 16 |
| SPM6530T-1R0M120 | 1 | ±20 | 0.8 | 100 | 7.81 | 7.1 | 14.1 | 13 |
| SPM6530T-1R5M100 | 1.5 | ±20 | 1.2 | 100 | 10.67 | 9.7 | 11.5 | 11 |
| SPM6530T-2R2M | 2.2 | ±20 | 1.76 | 100 | 19 | 17.3 | 8.4 | 8.2 |
| SPM6530T-3R3M | 3.3 | ±20 | 2.64 | 100 | 29.7 | 27 | 7.3 | 6.8 |
| SPM6530T-4R7M | 4.7 | ±20 | 3.76 | 100 | 39.4 | 35.8 | 6.2 | 5.6 |

* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 20%, whichever is smaller.

- Operating temperature range: -40 to +125°C (Including self-temperature rise)
- The cleaning agent can not be used for these parts.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.