

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

Conformity to RoHS Directive

## SPM Series SPM12550

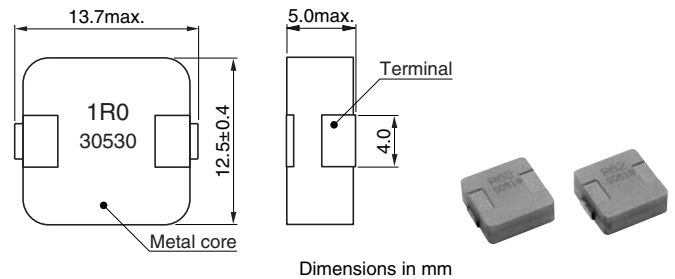
### FEATURES

- Low profile design  
Mount area: 12.5mm square  
Low profile: 5.0mm max. height
- 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.

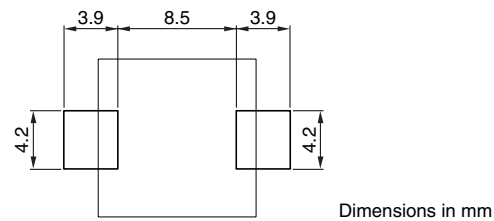
### APPLICATIONS

- Note book computers, VRMs, etc.

### SHAPES AND DIMENSIONS



### RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

Part No.	Inductance( $\mu\text{H}$ )		Inductance tolerance (%)	Test frequency (kHz)	DC resistance ( $\text{m}\Omega$ )		Rated current(A)*	
	[at 0A <sub>dc</sub> ]	Based on inductance change			max.	typ.	Based on inductance change	Based on temperature rise typ.
SPM12550T-R62M300	0.76typ.	0.62	$\pm 20$	100	1.74	1.45	30.0	25.0
SPM12550T-1R0M220	1.2typ.	1.0	$\pm 20$	100	2.28	1.90	22.0	22.0

\* 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 10%

- 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.