

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

**Conformity to RoHS Directive** 

## SPM Series SPM10040

#### **FEATURES**

· Low profile design

Mount area: 10.0mm square Low profile: 4.0mm max. height

• High power handling capability:

Small copper loss

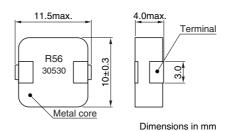
Using large saturation induction of Fe-based metals

- Wide operating temperature range due to high Curie temperature of around 550°C
- Available for automatic mounting in tape and reel package.

#### **APPLICATIONS**

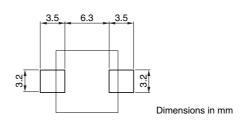
· Note book computers, VRMs, etc.

#### **SHAPES AND DIMENSIONS**





### RECOMMENDED PC BOARD PATTERN



#### **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance(µH)		Inductance	Test frequency	DC resistance	Rated current(A)*	
	[at 0Adc]	Based on inductance change	tolerance (%)	(kHz)	$(m\Omega)$	Based on inductance change	Based on temperature rise
SPM10040T-R36M170	0.4typ.	0.36	±20	300	1.1±7%	17.0	25.0typ.
SPM10040T-R56M150	0.6typ.	0.56	±20	300	1.7±7%	15.0	23.0typ.

<sup>\*</sup> 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.