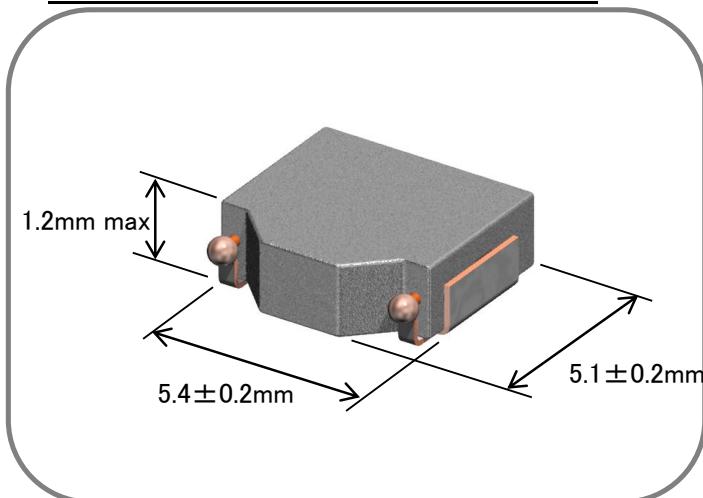


Component Image & DimensionFeatures

- a) Small Footprint and Low Profile Design :  
Footprint : 5.4 x 5.1 mm Typ.  
Height : 1.2mm Max.
- b) High Power Handling Capability :  
Small Copper Loss  
Using Large Saturation Induction of  
Fe-based metals
- c) Wide Range Operating Temperature due to  
High Curie Temperature
- d) Automatic Mounting in Tape&Reel Package.

Applications

Note Book & Mobile Computer, VRM,  
Cellular Phone, HDD etc.

Electrical Specification

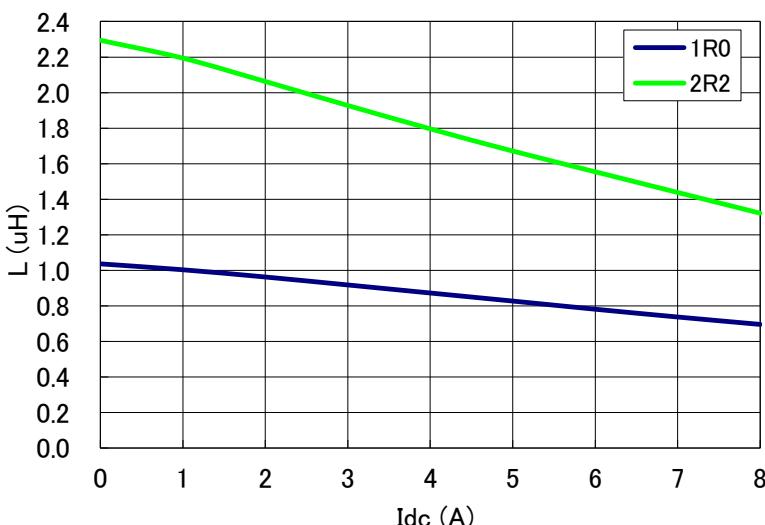
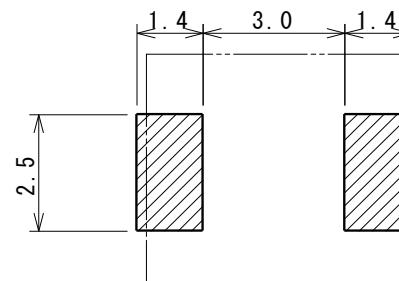
| TDK Identification | Inductance    |             | Test<br>Freq.<br>(kHz) | DC Resistance    |                 | Rated DC Current  |                   |                   |
|--------------------|---------------|-------------|------------------------|------------------|-----------------|-------------------|-------------------|-------------------|
|                    | at 0A<br>(uH) | Tol.<br>(%) |                        | Spec.<br>(m-Ohm) | Typ.<br>(m-Ohm) | Idc 1<br>(A) max. | Idc 1<br>(A) typ. | Idc 2<br>(A) typ. |
| SPM5012T- 1R0M-CA  | 1.0           | +/-20%      | 100                    | 44.0 max         | 40.0            | 6.3               | 7.9               | 4.1               |
| SPM5012T- 2R2M-CA  | 2.2           | +/-20%      | 100                    | 78.8 max         | 71.6            | 4.9               | 6.1               | 2.7               |

*Note. Idc 1 : Based on the inductance change. (-30% Reduction from Nominal L Value )*

*Idc 2 : Based on the self temperature rise. (+40 deg typ.)*

*Operating Temperature Range: -40 °C ~ +125 °C (including self temperature rise)*

**Caution: Please contact our sales person when you consider organic solvent or aqueous cleaning.**

Inductance vs.DC SuperpositionRecommended pad layout

# Mouser Electronics

Authorized Distributor

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TDK:

[SPM5012T-1R0M-CA](#) [SPM5012T-2R2M-CA](#)