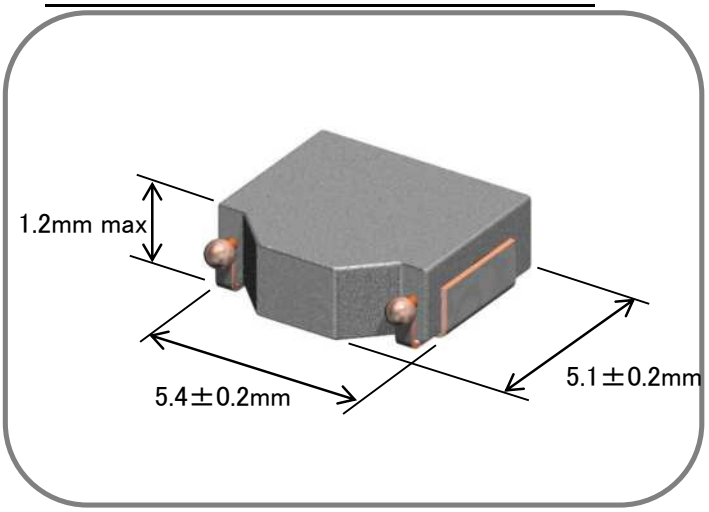
SPM5012-CA Series

SMD Power Inductor

Component Image & Dimension



Features

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.

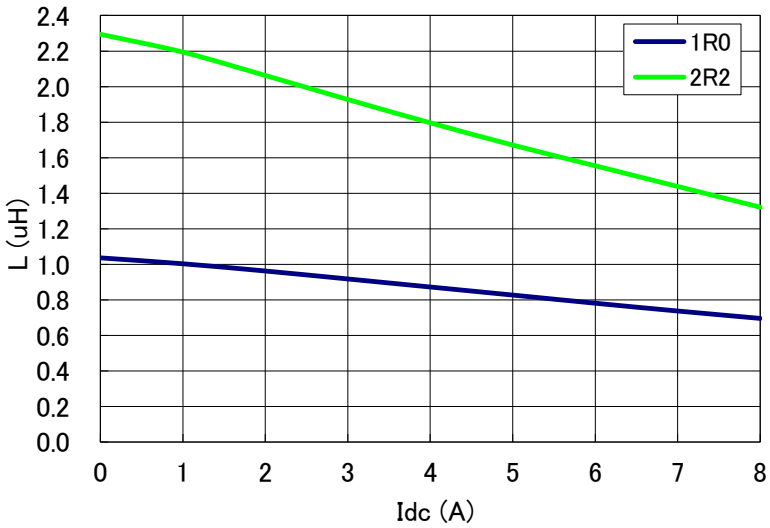
Electrical Specification

TDK Identification		Inductance at 0A (uH)	Tol. (%)	Test Freq. (kHz)	DC Resistance Spec. (m-Ohm)	DC Resistance Typ. (m-Ohm)	Rated DC Current Idc 1 (A) max.	Idc 1 (A) typ.	Idc 2 (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 ℃～+125 ℃ (including self temperature rise)

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

Inductance vs.DC Superposition



Recommended pad layout

