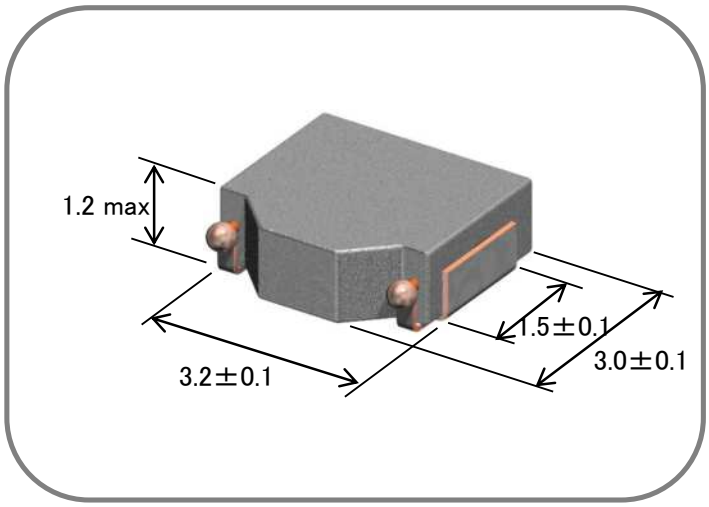
SPM3012-CA Series

SMD Power Inductor

Component Image & Dimension



Features

a) Small Footprint and Low Profile Design :
Footprint : 3.2 x 3.0 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 of metal core
d) Automatic Mounting in Tape&Reel Package.

Applications

Note Book & Mobile Computer, VRM,

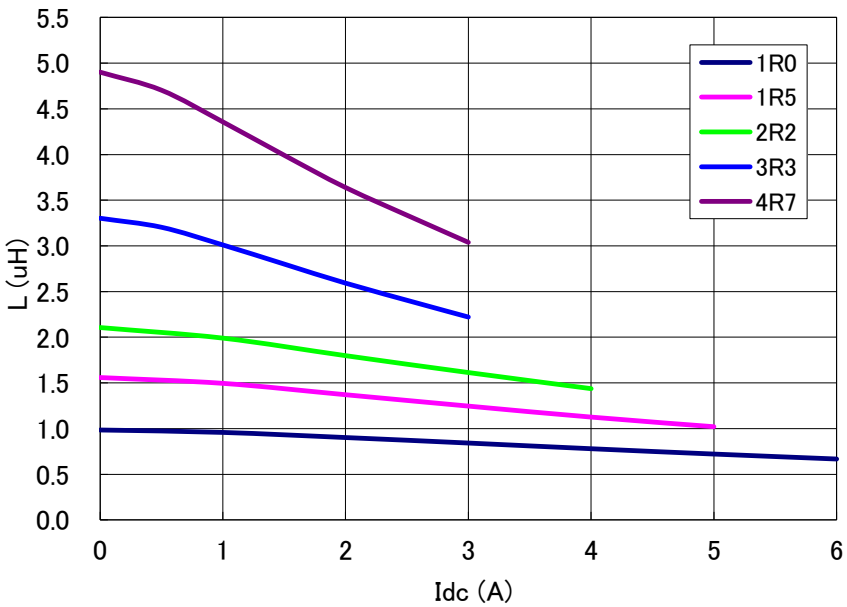
Electrical Specification (Provisional value)

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.
SPM3012T-	1R0M-CA	1.0	+/-20%	100	65 max	57	3.4	5.4	2.8
SPM3012T-	1R5M-CA	1.5	+/-20%	100	90 max	77	2.8	4.7	2.5
SPM3012T-	2R2M-CA	2.2	+/-20%	100	115 max	100	2.5	3.4	2.2
SPM3012T-	3R3M-CA	3.3	+/-20%	100	210 max	183	1.8	2.8	1.5
SPM3012T-	4R7M-CA	4.7	+/-20%	100	270 max	232	1.5	2.6	1.3

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

