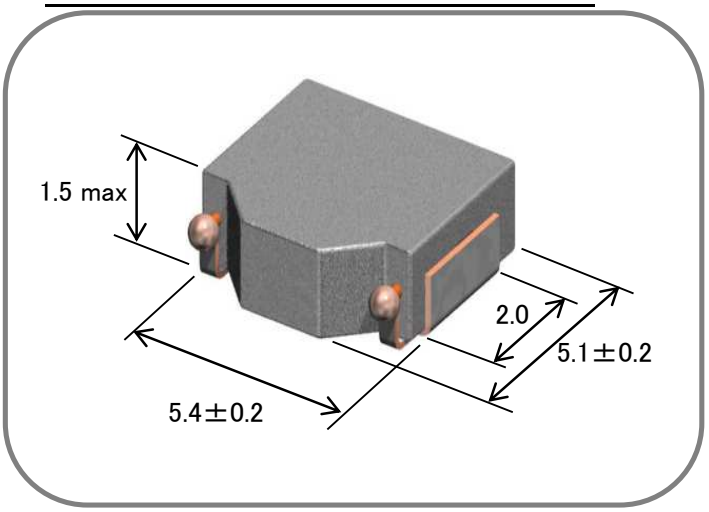
SPM5015 -CA Series

SMD Power Inductor

Component Image & Dimension



Features

a) Small Footprint and Low Profile Design :
Footprint : 5.4 x 5.1 mm Typ.
Height : 1.5mm Max.
b) High Power Handling Capability :
Small Copper Loss
Using Large Saturation Induction of
Fe- based metals
c) Flat inductance performance over temperature based on the high curie temperature of the iron powder core material.
d) Automatic Mounting in Tape&Reel Package.

Applications

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

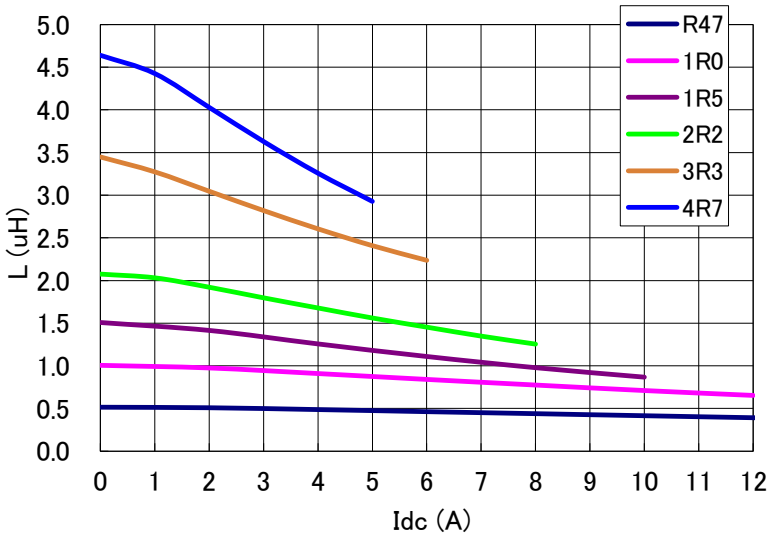
Electrical Specification

TDK Identification		Inductance at 0A (uH)	Inductance Tol. (%)	Test Freq. (kHz)	DC Resistance Spec. (m-Ohm)	DC Resistance Typ. (m-Ohm)	Rated DC Current Idc 1 (A) max.	Rated DC Current Idc 1 (A) typ.	Rated DC Current Idc 2 (A) typ.
SPM5015T-	R47M-CA	0.47	+/-20%	100	17.9 max	16.3	13.8	18.4	7.0
SPM5015T-	1R0M-CA	1.0	+/-20%	100	33.1 max	30.1	7.8	10.4	5.3
SPM5015T-	1R5M-CA	1.5	+/-20%	100	43.7 max	39.7	5.2	6.9	4.7
SPM5015T-	2R2M-CA	2.2	+/-20%	100	49.5 max	45.0	3.9	5.2	4.3
SPM5015T-	3R3M-CA	3.3	+/-20%	100	89.1 max	81.0	4.2	5.6	3.3
SPM5015T-	4R7M-CA	4.7	+/-20%	100	102.8 max	93.5	2.9	3.9	3.1

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

