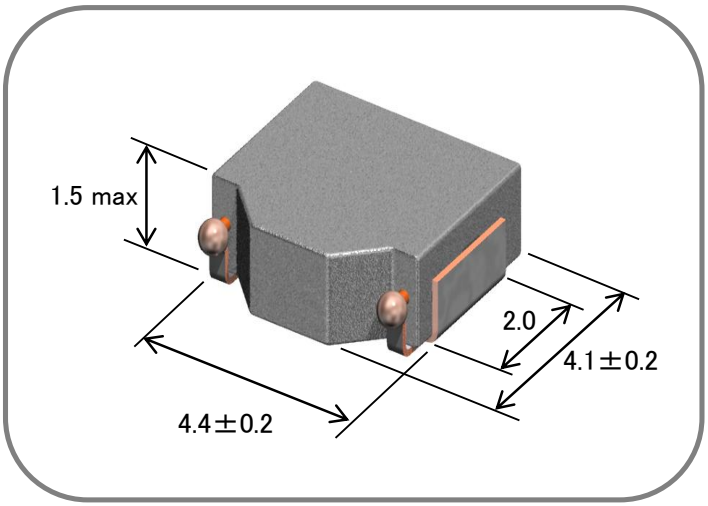
THE DATASHEET OF

SPM4015T-1R0M-CA02

SPM4015 -CA Series

SMD Power Inductor

Component Image & Dimension



Features

a) Small Footprint and Low Profile Design :
Footprint : 4.4 x 4.1 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)	Tol. (%)	Test Freq. (kHz)	DC Resistance Spec. (m-Ohm)	Typ. (m-Ohm)	Rated DC Current Idc 1 (A) max.	Idc 1 (A) typ.	Idc 2 (A) typ.
SPM4015T-	R47M-CA	0.47	+/-20%	100	24.4 max	22.2	10.0	13.4	5.5
SPM4015T-	1R0M-CA	1.0	+/-20%	100	39.6 max	36.0	6.7	8.9	4.3
SPM4015T-	1R5M-CA	1.5	+/-20%	100	56.0 max	51.0	4.4	5.8	3.7
SPM4015T-	2R2M-CA	2.2	+/-20%	100	71.0 max	64.5	4.3	5.8	3.1
SPM4015T-	3R3M-CA	3.3	+/-20%	100	128.0 max	116.4	2.9	3.9	2.3
SPM4015T-	4R7M-CA	4.7	+/-20%	100	206.5 max	187.7	2.7	3.7	1.8

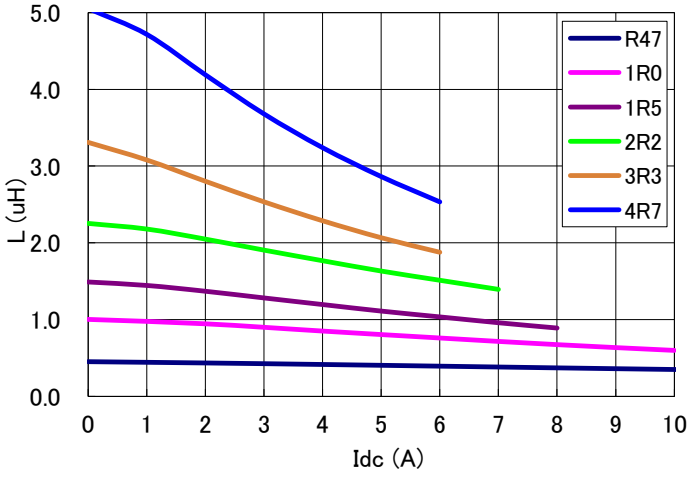
Note. *Idc 1 : Based on the inductance change.(-30% Reduction from Nominal L Value)*

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

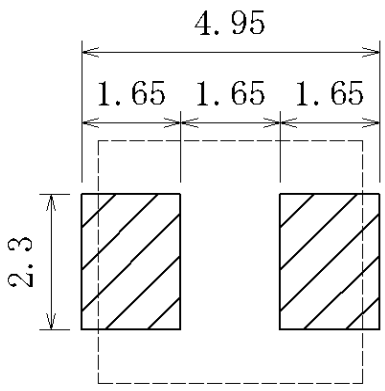
Operating Temperature Range: -40 ℃～+125 ℃ (including self temperature rise)

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

Inductance vs.DC Superposition



Recommended pad layout



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