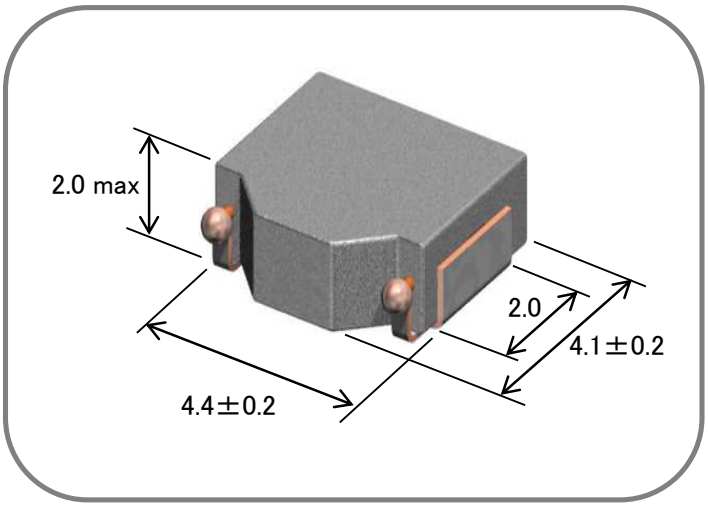
SPM4020 -CA Series

SMD Power Inductor

Component Image & Dimension



Features

a) Small Footprint and Low Profile Design :
Footprint : 4.4 x 4.1 mm Typ.
Height : 2.0mm 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.

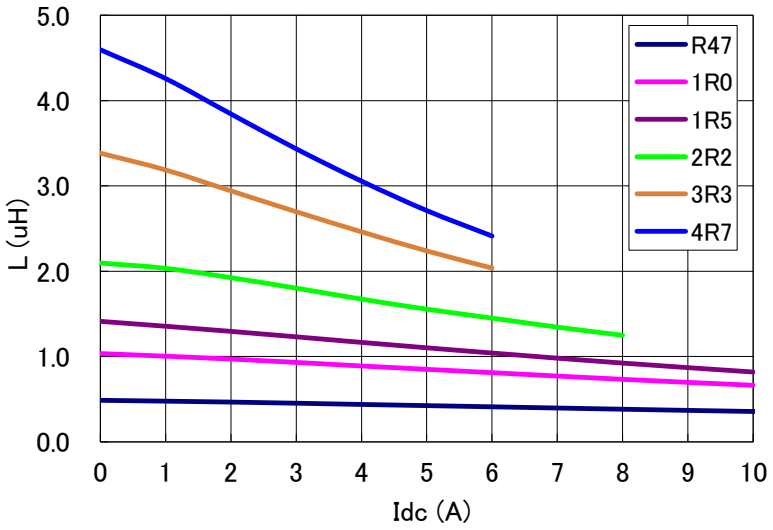
Electrical Specification

TDK Identification	Inductance at 0A (uH)	Tol. (%)	Test Freq. (kHz)	DC Resistance Spec. (m-Ohm)	DC Resistance Typ. (m-Ohm)	Rated DC Current Idc 1 (A) max.	Idc 1 (A) typ.	Idc 2 (A) typ.
SPM4020T- R47M-CA	0.47	+/-20%	100	19.5 max	17.7	10.6	14.1	6.1
SPM4020T- 1R0M-CA	1.0	+/-20%	100	34.7 max	31.6	6.7	8.9	5.0
SPM4020T- 1R5M-CA	1.5	+/-20%	100	46.8 max	42.5	4.3	5.8	4.1
SPM4020T- 2R2M-CA	2.2	+/-20%	100	70.4 max	64.0	3.8	5.1	3.7
SPM4020T- 3R3M-CA	3.3	+/-20%	100	79.3 max	72.1	3.5	4.7	3.6
SPM4020T- 4R7M-CA	4.7	+/-20%	100	144.1 max	131.0	2.6	3.4	2.2

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

