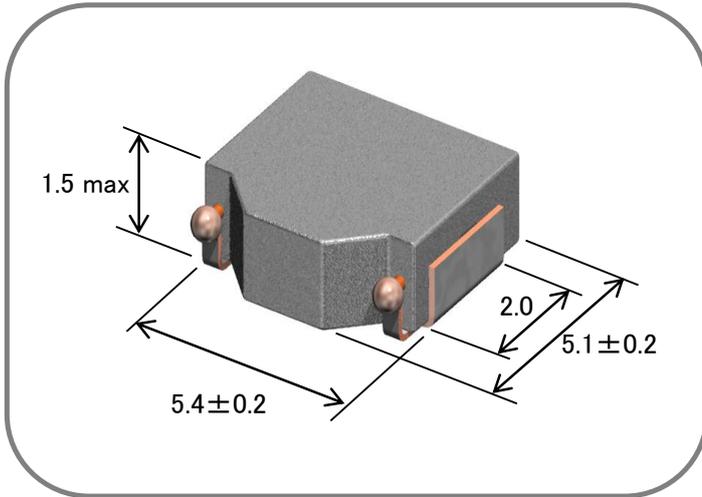


## Component Image & Dimension



## 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 accessories etc.

## Electrical Specification

TDK Identification	Inductance		Test Freq. (kHz)	DC Resistance		Rated DC Current		
	at 0A (uH)	Tol. (%)		Spec. (m-Ohm)	Typ. (m-Ohm)	Idc 1 (A) max.	Idc 1 (A) typ.	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

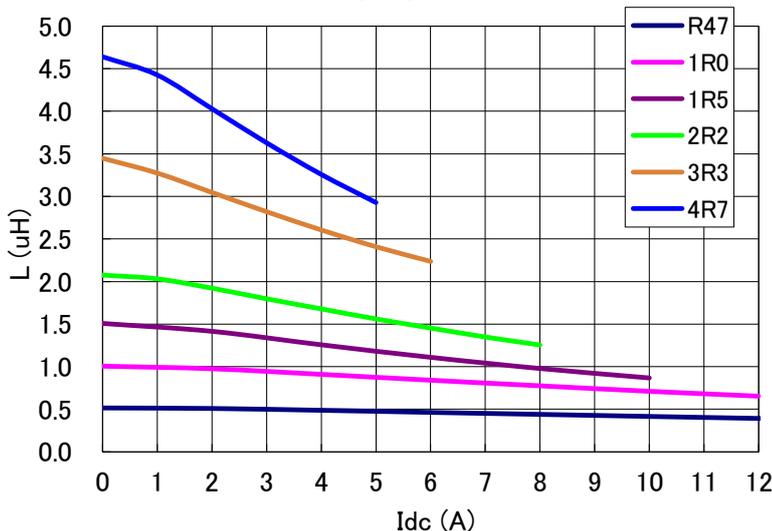
Note. Idc 1 : Based on the inductance change. (-30% Reduction from Nominal L Value )

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

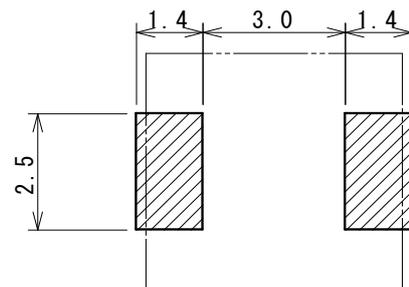
Operating Temperature Range: -40 °C ~ +125 °C (including self temperature rise)

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

## Inductance vs. DC Superposition



## Recommended pad layout



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TDK:](#)

[SPM5015T-3R3M-CA](#) [SPM5015T-1R5M-CA](#) [SPM5015T-1R0M-CA](#) [SPM5015T-4R7M-CA](#) [SPM5015T-2R2M-CA](#)  
[SPM5015T-R47M-CA](#)