

SPM4015T-1R0M-CA Datasheet

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DiGi Electronics Part Number SPI Manufacturer TDI Manufacturer Product Number SPI Description FIX Detailed Description 1 µ

SPM4015T-1R0M-CA-DG **TDK Corporation** SPM4015T-1R0M-CA FIXED IND 1UH 4.3A 39.6 MOHM SMD 1 μH Shielded Drum Core, Wirewound Inductor 4.3 A 39.6mOhm Max Nonstandard

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SPM4015T-1R0M-CA	TDK Corporation
Series:	Product Status:
SPM-CA	Obsolete
Туре:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
1 µН	±20%
Current Rating (Amps):	Current - Saturation (Isat):
4.3 A	6.7A
Shielding:	DC Resistance (DCR):
Shielded	39.6mOhm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
	-40°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.173" L x 0.161" W (4.40mm x 4.10mm)	0.059" (1.50mm)

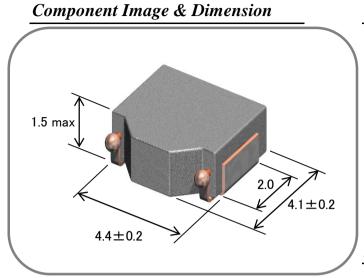
Environmental & Export classification

RoHS Status:
ROHS3 Compliant
REACH Status:
REACH Unaffected
HTSUS:
8504.50.4000

Moisture Sensitivi	ty Level (MSL):		
1 (Unlimited)				
ECCN:				
EAR99				



SPM4015 - CA Series SMD Power Inductor



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

Electrical Specification

		Induc	tance	Test	DC Res	sistance	Ra	ated DC Cu	ırrent
TDK Ider	ntification	at 0A	Tol.	Freq.	Spec.	Тур.	Id	c 1	Idc 2
		(uH)	(%)	(kHz)	(m-Ohm)	(m-Ohm)	(A) max.	(A) typ.	(A) typ.
SPM4015T-	R47M-CA	0.47	+/-20%	100	24.4 max	22.2	10.0	13.4	5.5
SPM4015T-	IROM-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	<i>4.3</i>	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

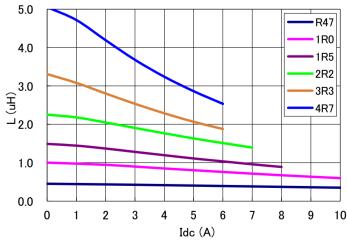
Note. Idc 1 : Based on the inductance change.(-30% Reduction from Nominal L Value) Idc 2 : Based on the self temperature rise. (+40 deg typ.)

Operating Temperature Range: -40 $C \sim$ +125 C (including self temperature rise)

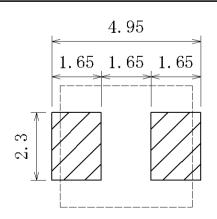
Operating Temperature Kange: -40 C = +125 C (including self temperature rise)

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





Recommended pad layout





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



OUR CERTIFICATE

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