

SPM5020T-3R3M-CA02 Datasheet

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DiGi Electronics Part Number SPM5020T-3R3M-CA02-DG Manufacturer Manufacturer Product Number Description **Detailed Description**

TDK Corporation SPM5020T-3R3M-CA02 FIXED IND 3.3UH 3.9A 0.0610HM SM 3.3 µH Shielded Drum Core, Wirewound Inductor 3. 9 A 61mOhm Max Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SPM5020T-3R3M-CA02	TDK Corporation
Series:	Product Status:
SPM-CA02	Active
Type:	Material - Core:
Drum Core, Wirewound	Metal
Inductance:	Tolerance:
3.3 µН	±20%
Current Rating (Amps):	Current - Saturation (Isat):
3.9 A	6.5A
Shielding:	DC Resistance (DCR):
Shielded	61mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
	-40°C ~ 105°C
Inductance Frequency - Test:	Features:
100 kHz	
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
	0.213" L x 0.201" W (5.40mm x 5.10mm)
Height - Seated (Max):	Base Product Number:
0.079" (2.00mm)	SPM5020T

Environmental & Export classification

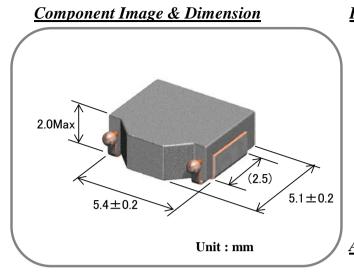
RoHS Status:
ROHS3 Compliant
REACH Status:
REACH Unaffected
HTSUS:
8504.50.8000

Moisture Sensitivity Level (MSL): 1 (Unlimited) ECCN: EAR99



SPM5020-CA02 Series

SMD Power Inductor



Features

- a) Small Footprint and Low Profile Design : Footprint : 5.4 x 5.1 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

In-vehicle infotainment only

Electrical Specification (Provisional value)

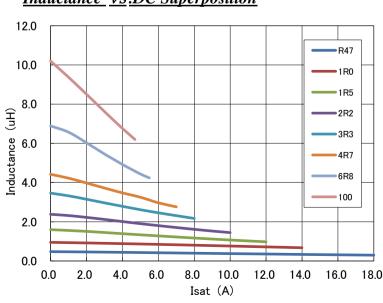
	Lo / Ind	uctance	Test	DC Res	istance	Rated DO	C Current
TDK Identification	at 0A	Tol.	Freq.	Max.	Тур.	Isat	Itemp
	(uH)	(%)	(kHz)	$(m\Omega)$	$(m\Omega)$	(A) Typ.	(A) Typ.
SPM5020T- R47M-CA02	0.47	+/-20%	100	11.5max	10.4	14.0	8.6
SPM5020T- 1R0M-CA02	1.00	+/-20%	100	17.2max	15.6	9.5	6.8
SPM5020T- 1R5M-CA02	1.50	+/-20%	100	24.8max	22.5	9.0	5.9
SPM5020T- 2R2M-CA02	2.20	+/-20%	100	40.7max	37.0	7.0	4.6
SPM5020T- 3R3M-CA02	3.30	+/-20%	100	61.0max	53.0	6.5	3.9
SPM5020T- 4R7M-CA02	4.70	+/-20%	100	67.7max	58.8	5.3	3.7
SPM5020T- 6R8M-CA02	6.80	+/-20%	100	118.5max	103.0	4.2	2.8
SPM5020T- 100M-CA02	10.00	+/-20%	100	174.8max	152.0	3.4	2.3

Note. Isat : Based on the inductance change.(drop -30% Typ. from Lo)

Itemp : Based on the self temperature rise. (+40 °C Typ.)

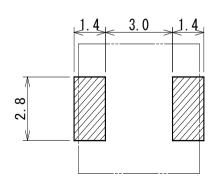
Operating Temperature Range: -40 $^{\circ}C \sim$ +105 $^{\circ}C$ (including self temperature rise)

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



Inductance vs.DC Superposition

Recommended pad layout



Unit : mm





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