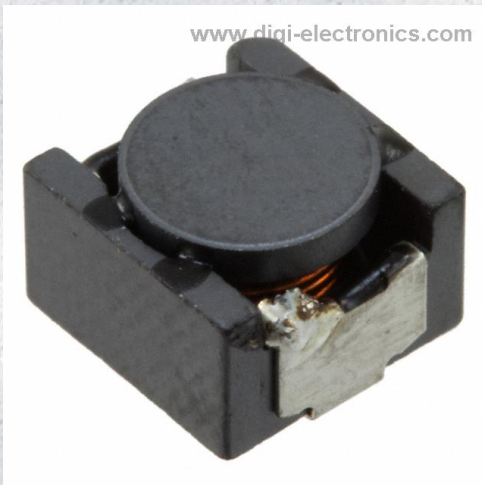


RLF7045T-6R8N2R3-D Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	RLF7045T-6R8N2R3-D-DG
Manufacturer	TDK Corporation
Manufacturer Product Number	RLF7045T-6R8N2R3-D
Description	FIXED IND 6.8UH 2.3A 43.2MOHM SM
Detailed Description	6.8 μ H Shielded Drum Core, Wirewound Inductor 2.3 A 43.2mOhm Max Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

RLF7045T-6R8N2R3-D

Series:

RLF-D

Type:

Drum Core, Wirewound

Inductance:6.8 μ H**Current Rating (Amps):**

2.3 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.287" L x 0.268" W (7.30mm x 6.80mm)

Manufacturer:

TDK Corporation

Product Status:

Not For New Designs

Material - Core:

Ferrite

Tolerance: \pm 30%**Current - Saturation (Isat):**

2.7A

DC Resistance (DCR):

43.2mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 150°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.189" (4.80mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

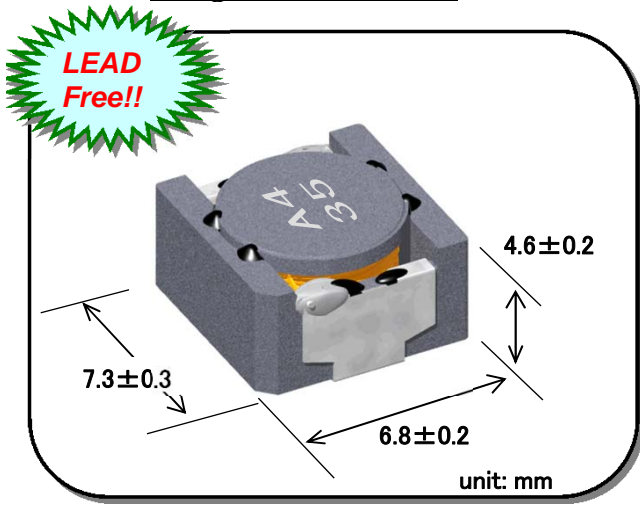
Standard Products !!

RLF7045-D TYPE

Automotive Target

SMD Power Inductor

**Component
Image & Dimension**



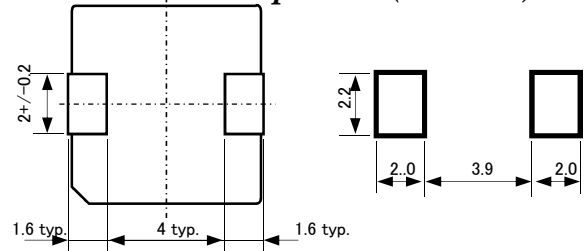
Features :

- a) Miniature Size :
Mount Area : 7.3mm x 6.8mm
Low Profile : 4.8mm Max. Height
- b) Tough Design
Generic use for Automotive Appliance.
Heat and vibration, mechanical shock resistance ability can endure an automobile use.
Operation temperature ; -40°C ~ +150°C
(Including self-temperature rise)
Storage temperature ; -40°C ~ +150°C
- c) High Magnetic Shield Construction should actualize High Resolution for EMC Protection.
- d) Automatic Mounting in Tape & Reel Package.
- e) Qualified acc. AEC-Q200.

Applications :

for Automotive electric control devices and high temperature operation devices
Automotive Appliance (ECM, HID, SRS Air Bag, Transmission control, Power steering control, Brake control, etc)

Recommended Land pattern (unit: mm)



Electrical Specification

TDK Identification	Inductance (uH)	Test Freq. (kHz)	DC Resistance (Ohm.)	Rated DC Current	
				Idc 1 (A max.)	Idc 2 (A Typ.)
RLF7045T- 100M1R9-D	10 +/-20%	100	50m +/-20%	2.6	1.9
RLF7045T- 220M1R4-D	22 +/-20%	100	82m +/-20%	1.5	1.4
RLF7045T- 330M1R2-D	33 +/-20%	100	125m +/-20%	1.2	1.2
RLF7045T- 470M1R0-D	47 +/-20%	100	160m +/-20%	1.2	1.0
RLF7045T- 680MR85-D	68 +/-20%	100	284m +/-20%	0.85	0.85
RLF7045T- 101MR75-D	100 +/-20%	100	360m +/-20%	0.85	0.75
RLF7045T- 121MR55-D	120 +/-20%	100	400m +/-20%	0.80	0.55

Note. Idc 1 : Depend on the Inductance Saturation. (-30% Saturation from Nominal L Value, Ta= 20degC)
Idc 2 : Depend on the self temperature rise. (ΔT=20degC, Ta=20degC)



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