

RLF7045T-470M1R0-D Datasheet



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| | |
|------------------------------|---|
| DiGi Electronics Part Number | RLF7045T-470M1R0-D-DG |
| Manufacturer | TDK Corporation |
| Manufacturer Product Number | RLF7045T-470M1R0-D |
| Description | FIXED IND 47UH 1A 192 MOHM SMD |
| Detailed Description | 47 μ H Shielded Drum Core, Wirewound Inductor 1 A 192mOhm Max Nonstandard |



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Purchase and inquiry

Manufacturer Product Number:

RLF7045T-470M1R0-D

Series:

RLF-D

Type:

Drum Core, Wirewound

Inductance:

47 μ H

Current Rating (Amps):

1 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 20%

Current - Saturation (Isat):

1.2A

DC Resistance (DCR):

192mOhm 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

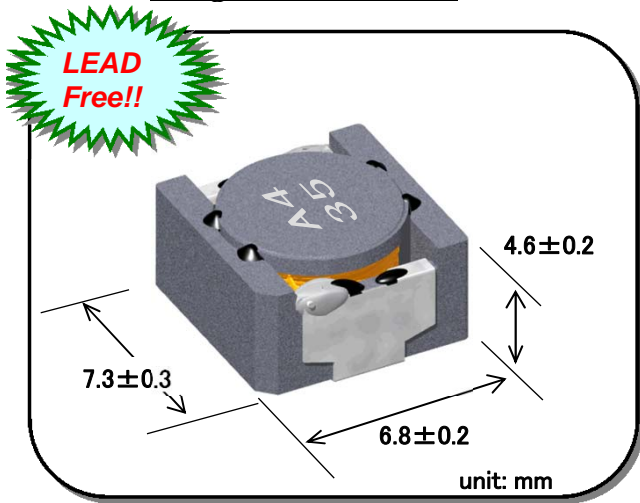
Standard Products !!

RLF7045-D TYPE

Automotive Target

SMD Power Inductor

Component Image & Dimension



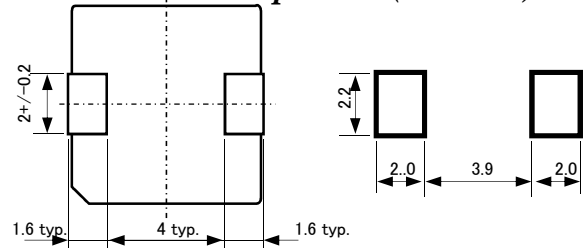
Features :

- 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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