

CDMT40D40HF-100NC Datasheet



| | |
|------------------------------|--|
| DiGi Electronics Part Number | CDMT40D40HF-100NC-DG |
| Manufacturer | Sumida America Components Inc. |
| Manufacturer Product Number | CDMT40D40HF-100NC |
| Description | INDUCTOR |
| Detailed Description | 10 μ H Shielded Molded Inductor 2.3 A 88mOhm Max Nonstandard |

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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CDMT40D40HF-100NC

Series:

CDMT40D40

Type:

Molded

Inductance:

10 μ H

Current Rating (Amps):

2.3 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.161" (4.10mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Metal

Tolerance:

\pm 30%

Current - Saturation (Isat):

2.8A

DC Resistance (DCR):

88mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.169" L x 0.169" W (4.30mm x 4.30mm)

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

SMD Power Inductor

CDMT40D40



Recommended Type

Description

- Metal compound molding type construction
- Magnetically shielded
- Suitable for large current
- LxWxH:4.3x4.3x4.1mm Max.
- Product weight: 0.38g (Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Storage temperature range: -40°C~+125°C
- Operating temperature range: -40°C~+125°C (Not including coil's temperature rise)

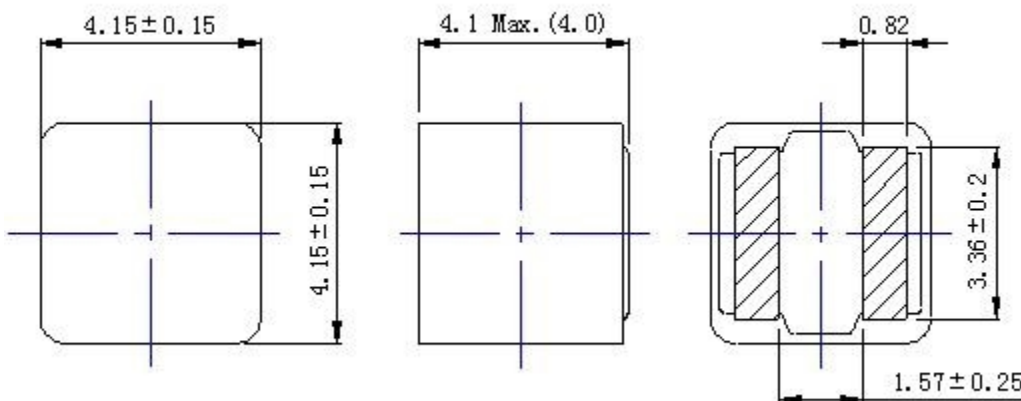
Packaging

- Carrier tape and reel packaging
- 1500pcs per reel

Applications

- Qualified consumer-level applications (ideally used in tablet PC, LCD display , Server application)
- HDD, SSD modules application
- High current, POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems

Dimension - [mm]



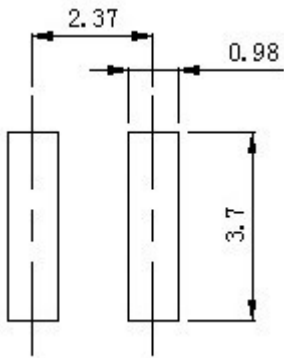
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

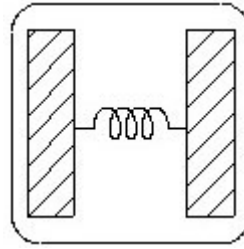
CDMT40D40



Recommended Land pattern - [mm]



Wire Connection



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CDMT40D40



Recommended Type

Electrical Characteristics

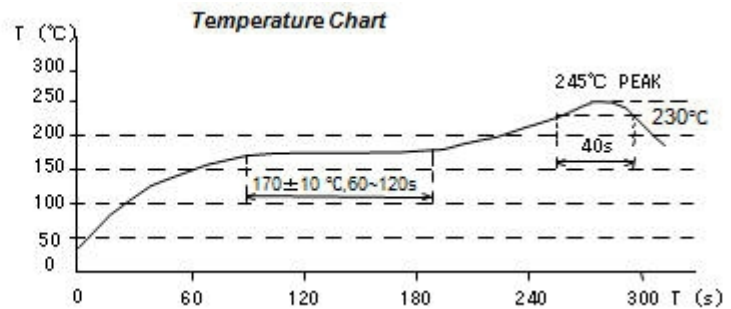
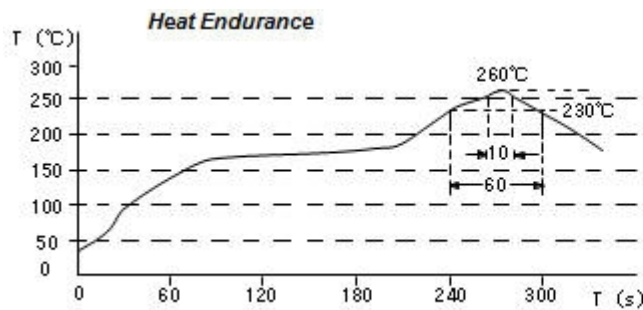
| Part Number | Inductance [Within] (μ H) ※1 | D.C.R. at 20°C Max.(Typ.) (m Ω) | Saturation Current (A) Max.(Typ.) ※2 | Temperature Rise Current (A) Max.(Typ.) ※3 |
|-------------------|-----------------------------------|---|--------------------------------------|--|
| CDMT40D40HF-8R2NC | 8.20 \pm 30% | 60.60 (55.10) | (3.50) | (2.90) |
| CDMT40D40HF-100NC | 10.00 \pm 30% | 88.00 (80.00) | (2.80) | (2.30) |
| CDMT40D40HF-150NC | 15.00 \pm 30% | 118 (107) | (2.50) | (1.95) |

※1 Measuring frequency at 100 kHz, 0.1V

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



SMD Power Inductor

CDMT40D40



Saturation Current & Temperature Rise Graph

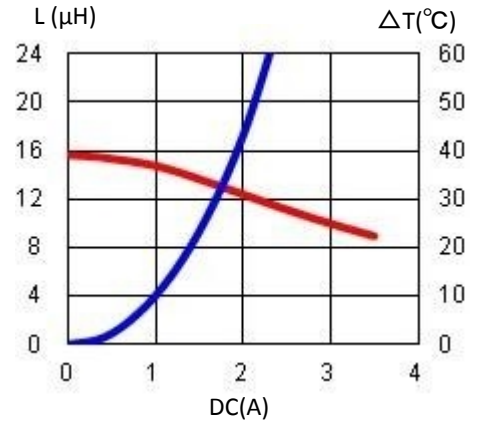
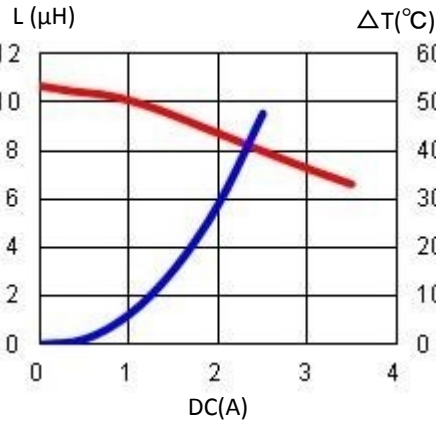
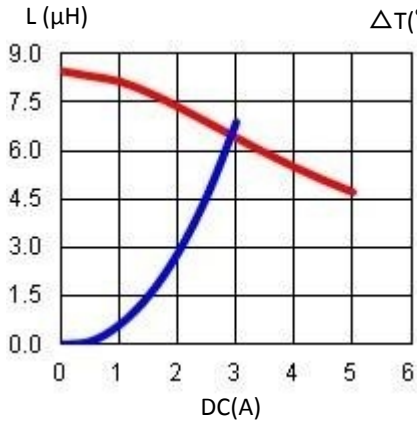
— L (20°C)

— ΔT

1. CDMT40D40HF-8R2NC

2. CDMT40D40HF-100NC

3. CDMT40D40HF-150NC



For sales office information, please [click here](#) to visit our website.

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