

CDMPIH10D48T125NP-110MC Datasheet



DiGi Electronics Part Number	CDMPIH10D48T125NP-110MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDMPIH10D48T125NP-110MC
Description	INDUCTOR
Detailed Description	11 μ H Shielded Drum Core, Wirewound Inductor 4 A 36mOhm Max Nonstandard

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Purchase and inquiry

Manufacturer Product Number:

CDMPIH10D48T125NP-110MC

Series:

CDMPIH10D48/T125

Type:

Drum Core, Wirewound

Inductance:

11 μ H

Current Rating (Amps):

4 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.197" (5.00mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

4.7A

DC Resistance (DCR):

36mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.406" L x 0.406" W (10.30mm x 10.30mm)

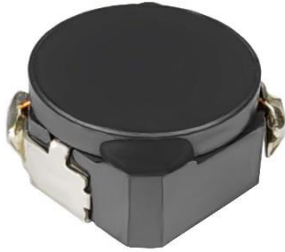
Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

SMD Power Inductor

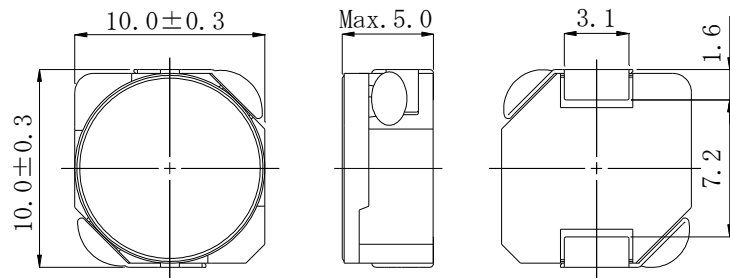
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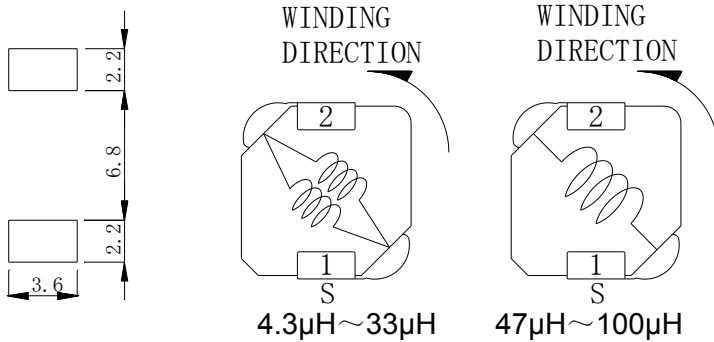
Description

- Ferrite core construction.
- Magnetically shielded.
- Lower flux leakage
- L × W × H: 10.3 × 10.3 × 5.0mm Max.
- Product weight: 2.02g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 500pcs per reel

Applications

- Ideally used in Car navigation, Automobile's MPV equipment and D-Amp. etc.

Electrical Characteristics

Part name	Stamp	Inductance (µH) [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 125°C)	
CDMPIH10D48T125NP-4R3PC	4R3	4.3±25%	18.5(15.0)	7.4	5.7	5.5
CDMPIH10D48T125NP-5R6PC	5R6	5.6±25%	24.0(19.0)	6.5	5.0	4.8
CDMPIH10D48T125NP-7R5PC	7R5	7.5±25%	27.5(22.0)	5.6	4.4	4.4
CDMPIH10D48T125NP-110MC	110	11±20%	36.0(29.0)	4.7	3.6	4.0
CDMPIH10D48T125NP-220MC	220	22±20%	64.0(52.0)	3.3	2.6	2.8
CDMPIH10D48T125NP-330MC	330	33±20%	103(83.0)	2.7	2.1	2.2
CDMPIH10D48T125NP-470MC	470	47±20%	139(112)	2.25	1.75	1.70
CDMPIH10D48T125NP-680MC	680	68±20%	214(172)	1.85	1.40	1.40
CDMPIH10D48T125NP-101MC	101	100±20%	275(220)	1.55	1.20	1.25

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

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

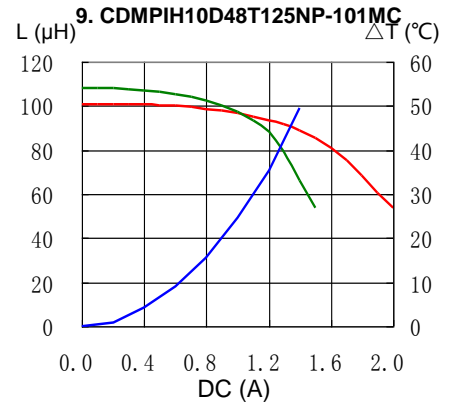
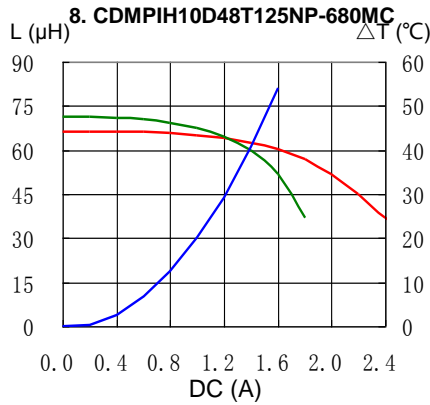
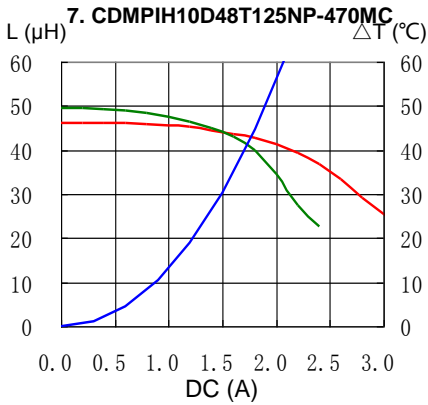
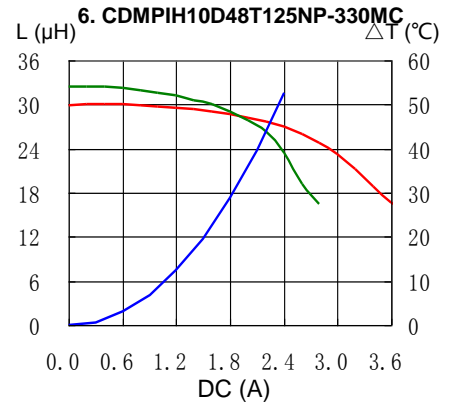
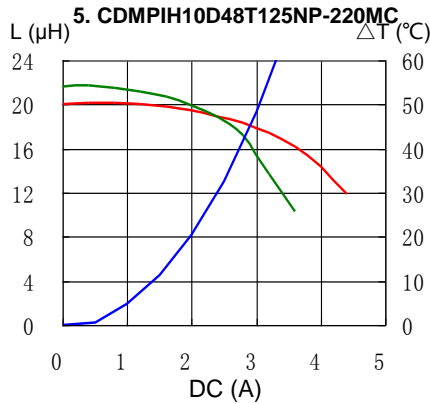
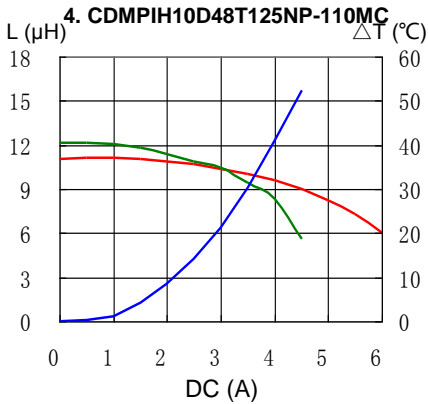
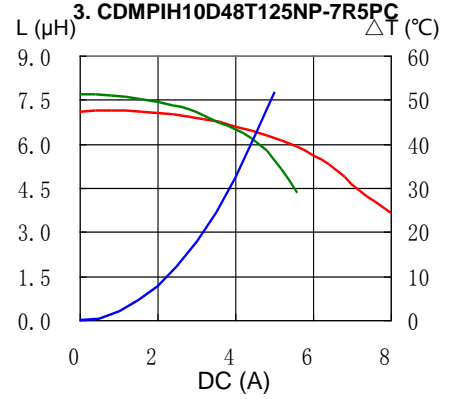
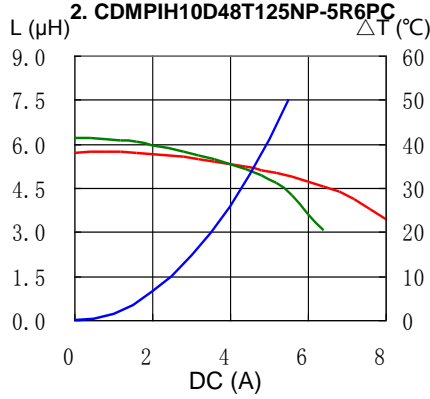
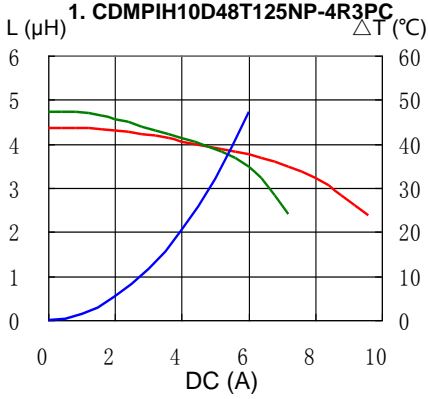
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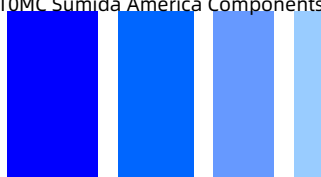
Saturation Current & Temperature Rise Graph

— L (25°C) — L (125°C) — ΔT



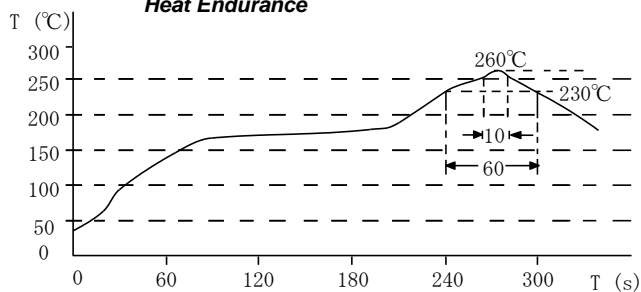
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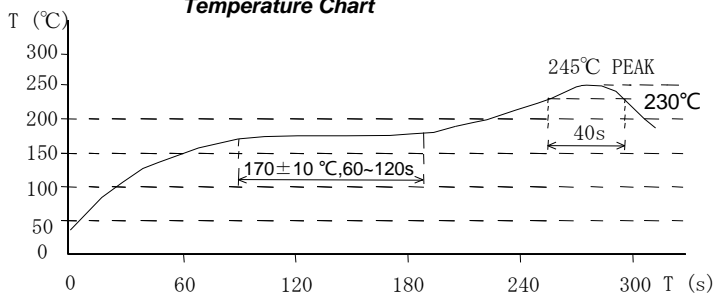


Solder Reflow Condition

Heat Endurance



Temperature Chart



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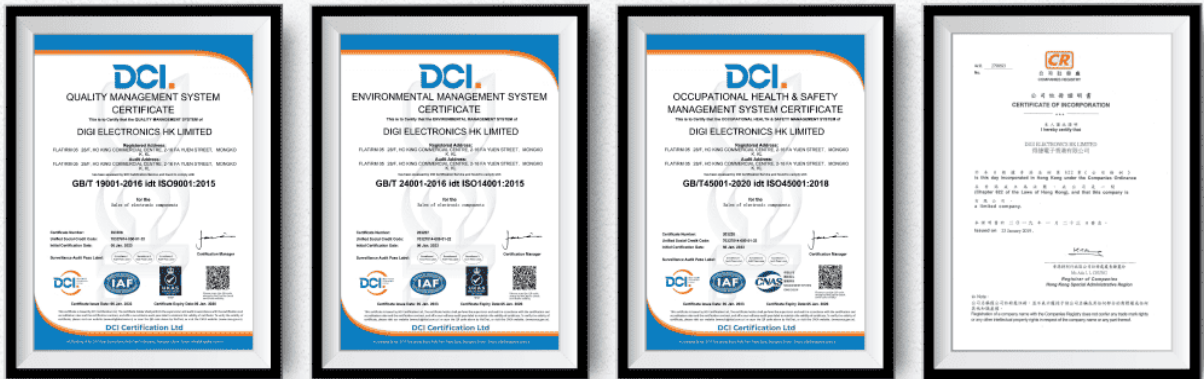
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