

# CDMPIH75D43T125NP-330MC Datasheet



DiGi Electronics Part Number	CDMPIH75D43T125NP-330MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDMPIH75D43T125NP-330MC
Description	INDUCTOR
Detailed Description	33 $\mu$ H Shielded Drum Core, Wirewound Inductor 1.5 A 143mOhm Max Nonstandard

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## Purchase and inquiry

Manufacturer Product Number:

CDMPIH75D43T125NP-330MC

Series:

CDMPIH75D43/T125

Type:

Drum Core, Wirewound

Inductance:

33  $\mu$ H

Current Rating (Amps):

1.5 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.177" (4.50mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

1.3A

DC Resistance (DCR):

143mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.307" L x 0.295" W (7.80mm x 7.50mm)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

# SMD Power Inductor

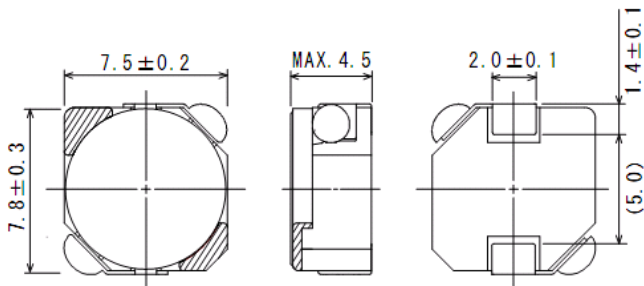
## CDMPIH75D43/T125



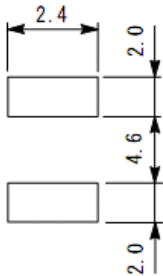
### Description

- Ferrite core construction.
- Magnetically shielded.
- Lower flux leakage.
- L × W × H: 8.1 × 7.7 × 4.5 mm Max.
- Product weight: 0.92g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Dimension - [mm]



### Land pattern - [mm]



### Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [Within] ※1	D. C. R. (m $\Omega$ ) [Max.] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 125°C)	
CDMPIH75D43T125NP-6R8PC	6R8	6.8 $\mu$ H $\pm$ 25%	43 (34)	3.7	2.9	2.8
CDMPIH75D43T125NP-100MC	100	10 $\mu$ H $\pm$ 20%	52 (42)	3.1	2.4	2.6
CDMPIH75D43T125NP-220MC	220	22 $\mu$ H $\pm$ 20%	93 (74)	2.1	1.6	1.8
CDMPIH75D43T125NP-330MC	330	33 $\mu$ H $\pm$ 20%	143 (114)	1.7	1.3	1.5
CDMPIH75D43T125NP-470MC	470	47 $\mu$ H $\pm$ 20%	210 (168)	1.4	1.1	1.2
CDMPIH75D43T125NP-680MC	680	68 $\mu$ H $\pm$ 20%	315 (253)	1.2	0.9	1.0
CDMPIH75D43T125NP-101MC	101	100 $\mu$ H $\pm$ 20%	390 (315)	1.00	0.75	0.80
CDMPIH75D43T125NP-151MC	151	150 $\mu$ H $\pm$ 20%	585 (470)	0.80	0.60	0.65
CDMPIH75D43T125NP-221MC	221	220 $\mu$ H $\pm$ 20%	1005 (805)	0.65	0.50	0.50

※1. Inductance measuring condition :at 100kHz

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

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

### Environmental Data

- Operating temperature range:  $-40^\circ\text{C} \sim +125^\circ\text{C}$   
(including coil's self temperature rise)
- Storage temperature range:  $-40^\circ\text{C} \sim +105^\circ\text{C}$
- Solder reflow temperature:  $260^\circ\text{C}$  peak.

### Packaging

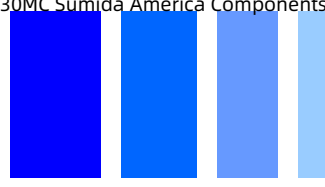
- Carrier tape and reel packaging

### Applications

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

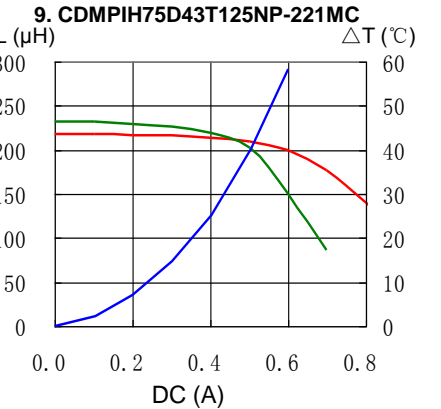
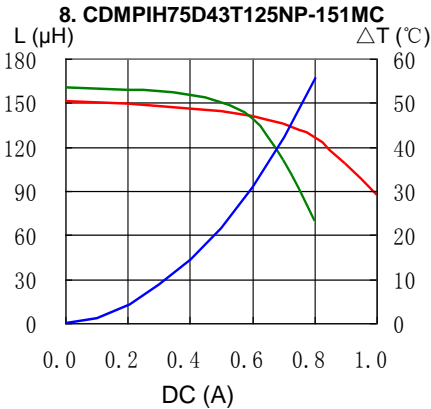
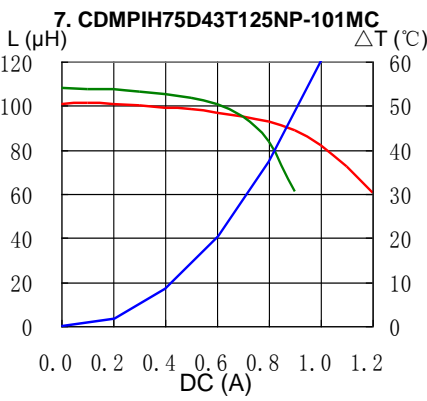
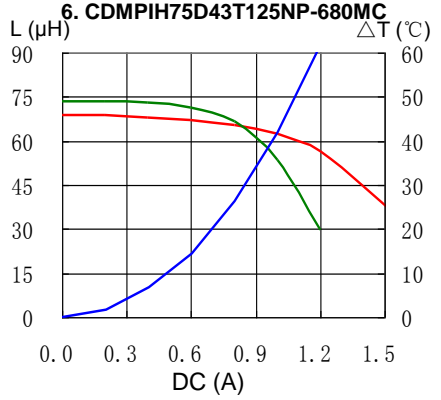
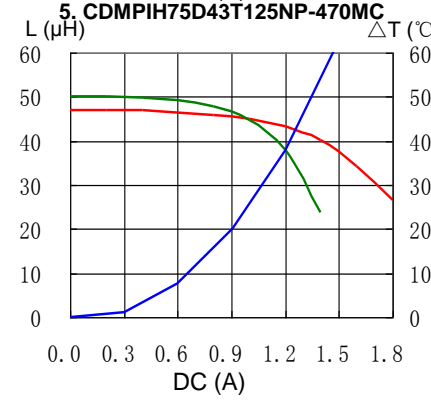
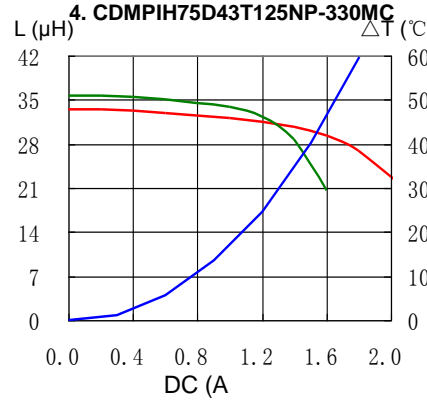
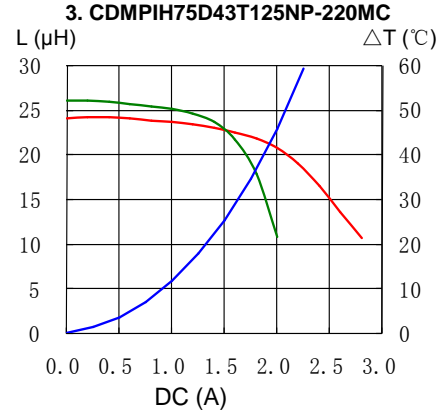
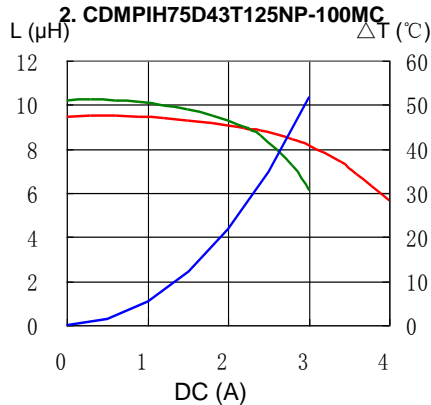
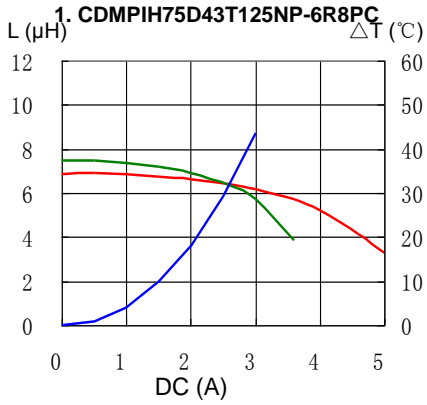
# SMD Power Inductor

## CDMPIH75D43/T125



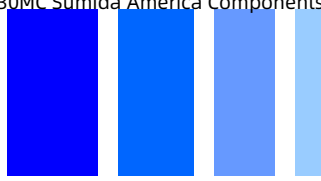
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$



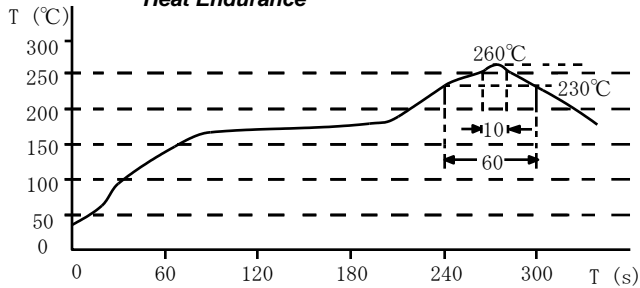
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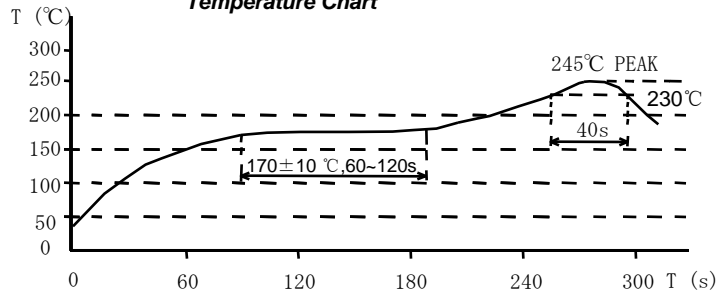


### Solder Reflow Condition

**Heat Endurance**



**Temperature Chart**



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