

# CDMPIH10D48BNP-331MC Datasheet



DiGi Electronics Part Number	CDMPIH10D48BNP-331MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDMPIH10D48BNP-331MC
Description	INDUCTOR
Detailed Description	330 $\mu$ H Shielded Drum Core, Wirewound Inductor 6 50 mA 1.10hm Max Nonstandard

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## Purchase and inquiry

Manufacturer Product Number:

CDMPIH10D48BNP-331MC

Series:

CDMPIH10D48B

Type:

Drum Core, Wirewound

Inductance:

330  $\mu$ H

Current Rating (Amps):

650 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

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):

930mA

DC Resistance (DCR):

1.1Ohm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.421" L x 0.406" W (10.70mm x 10.30mm)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

# SMD Power Inductor

## CDMPIH10D48B



### Description

- Ferrite core construction
- Magnetically shielded
- LxWxH:10.7x10.3x5.0mm Max.
- Product weight: 2.0g(Ref.)
- Moisture Sensitivity Level: 1



### Environmental Data

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

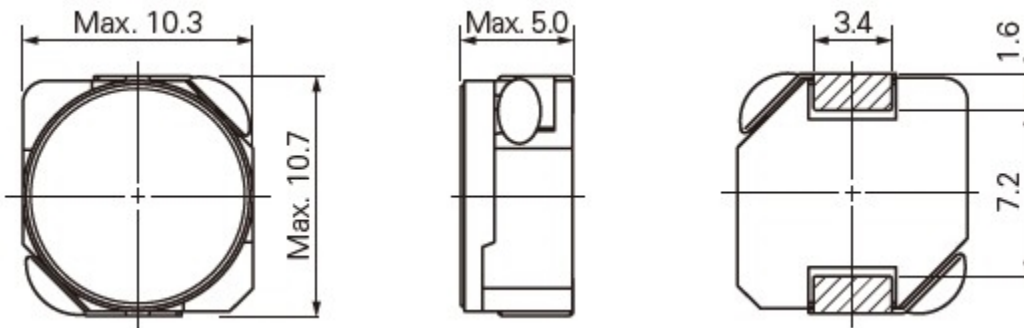
### Packaging

- Carrier tape and reel packaging
- 500pcs per reel

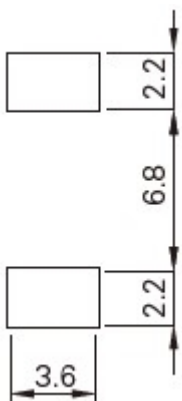
### Applications

- The Lens drive motor of mirror less single-lens reflex camera
- Auto focus ultrasonic waves motor for DC-DC converter

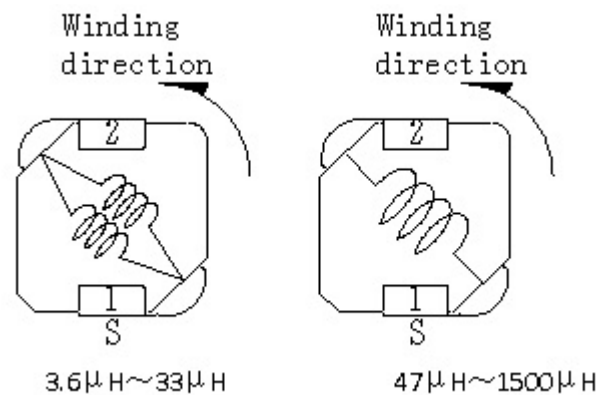
### Dimension - [mm]



### Recommended Land pattern - [mm]



### Wire Connection



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

## CDMPIH10D48B



## Electrical Characteristics

Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C Max.(Typ.) (m $\Omega$ )	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDMPIH10D48BNP-3R6MC	3.60 $\pm$ 20%	18.70 (15.00)	8.50 (10.00)	(6.05)
CDMPIH10D48BNP-4R7MC	4.70 $\pm$ 20%	23.80 (19.00)	7.60 (9.00)	(5.45)
CDMPIH10D48BNP-5R6MC	5.60 $\pm$ 20%	27.50 (22.00)	6.60 (7.80)	(4.95)
CDMPIH10D48BNP-120MC	12.00 $\pm$ 20%	42.50 (34.00)	4.80 (5.70)	(3.90)
CDMPIH10D48BNP-150MC	15.00 $\pm$ 20%	60.00 (48.00)	4.20 (5.00)	(3.15)
CDMPIH10D48BNP-220MC	22.00 $\pm$ 20%	82.00 (68.00)	3.50 (4.20)	(2.70)
CDMPIH10D48BNP-330MC	33.00 $\pm$ 20%	118 (95.00)	2.80 (3.40)	(2.15)
CDMPIH10D48BNP-470MC	47.00 $\pm$ 20%	170 (140)	2.40 (2.90)	(1.70)
CDMPIH10D48BNP-680MC	68.00 $\pm$ 20%	220 (180)	1.90 (2.30)	(1.45)
CDMPIH10D48BNP-101MC	100 $\pm$ 20%	310 (250)	1.70 (2.00)	(1.35)
CDMPIH10D48BNP-121MC	120 $\pm$ 20%	380 (310)	1.50 (1.80)	(1.14)
CDMPIH10D48BNP-151MC	150 $\pm$ 20%	480 (390)	1.30 (1.60)	(1.07)
CDMPIH10D48BNP-221MC	220 $\pm$ 20%	750 (600)	1.10 (1.30)	(0.83)
CDMPIH10D48BNP-331MC	330 $\pm$ 20%	1100 (910)	0.93 (1.10)	(0.65)
CDMPIH10D48BNP-471MC	470 $\pm$ 20%	1600 (1300)	0.79 (0.93)	(0.54)
CDMPIH10D48BNP-681MC	680 $\pm$ 20%	2300 (1900)	0.64 (0.76)	(0.46)
CDMPIH10D48BNP-102MC	1000 $\pm$ 20%	3300 (2600)	0.50 (0.62)	(0.36)
CDMPIH10D48BNP-122MC	1200 $\pm$ 20%	4300 (3400)	0.46 (0.55)	(0.31)
CDMPIH10D48BNP-152MC	1500 $\pm$ 20%	5500 (4400)	0.42 (0.52)	(0.27)

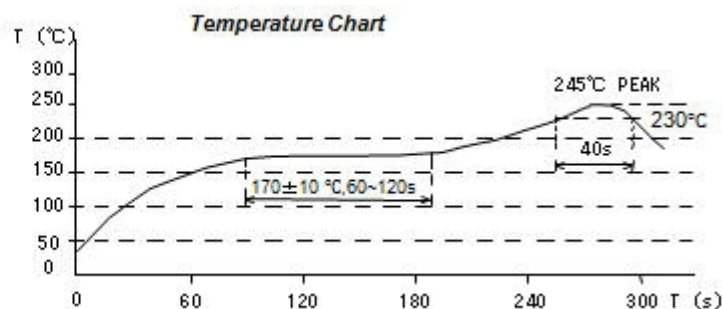
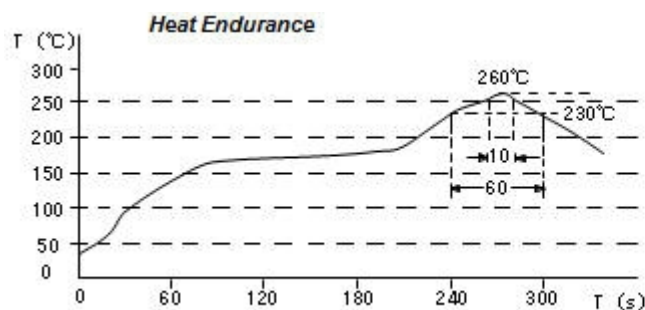
※1 Inductance tested at frequency : Inductance 3.6  $\mu$  H~680  $\mu$  H at 100kHz,1V;

Inductance 1000  $\mu$  H~1500  $\mu$  H at 1kHz,1V.

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value. (Ta=20°C).

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes  $\Delta$ T=40°C.(Ta=20°C).

## Solder Reflow Condition



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# SMD Power Inductor

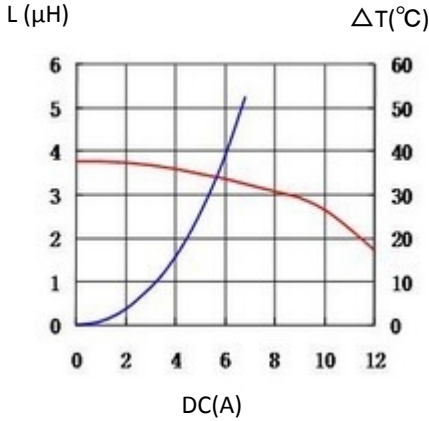
## CDMPIH10D48B



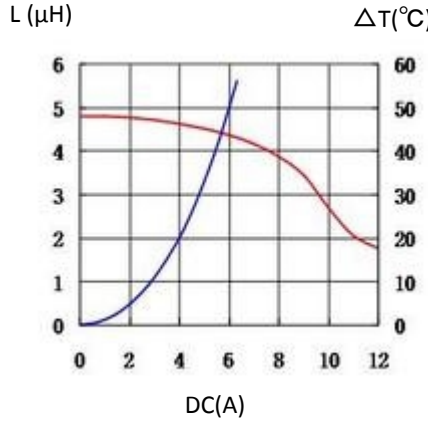
### Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$

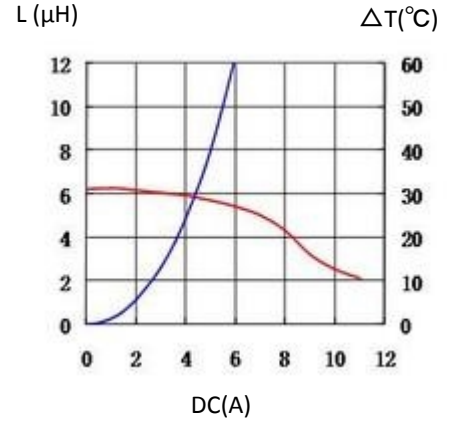
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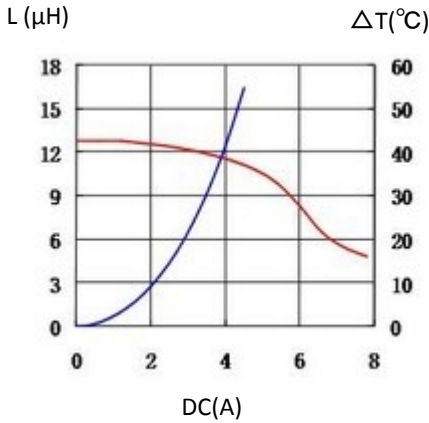
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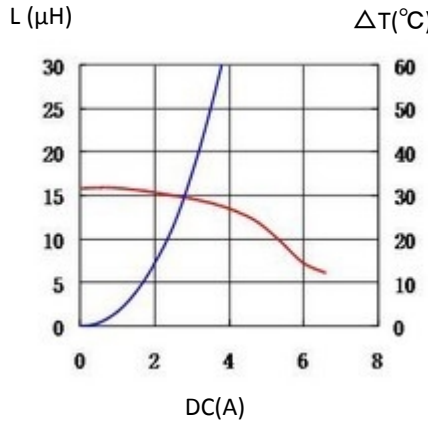
3. CDMPIH10D48BNP-5R6MC



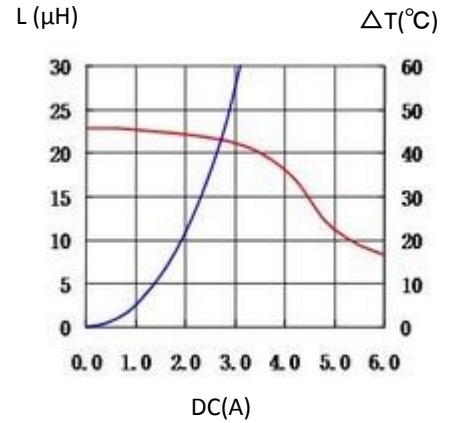
4. CDMPIH10D48BNP-120MC



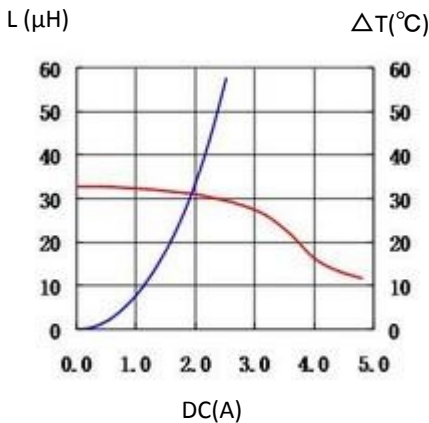
5. CDMPIH10D48BNP-150MC



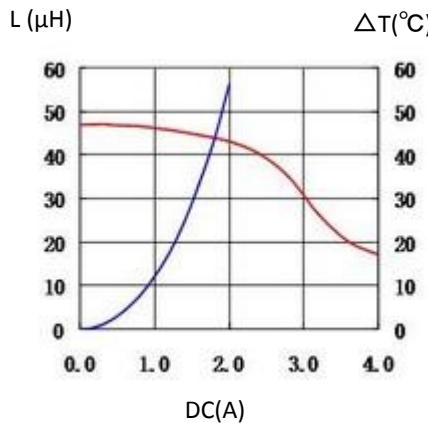
6. CDMPIH10D48BNP-220MC



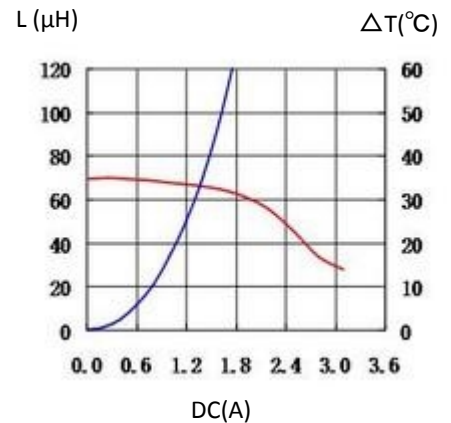
7. CDMPIH10D48BNP-330MC



8. CDMPIH10D48BNP-470MC



9. CDMPIH10D48BNP-680MC



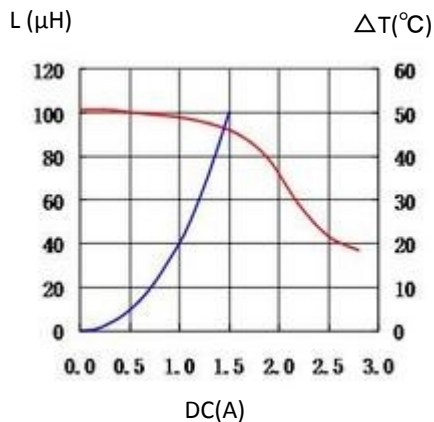
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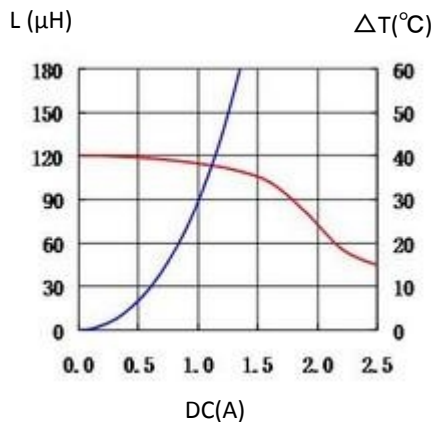
## CDMPIH10D48B



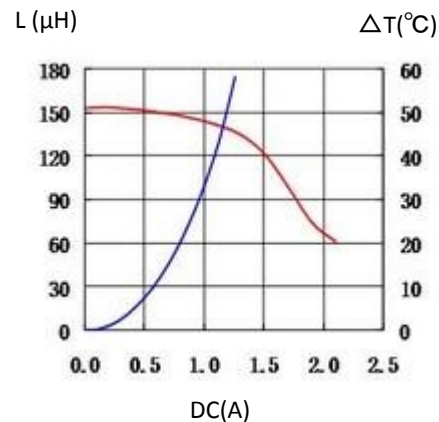
10. CDMPIH10D48BNP-101MC



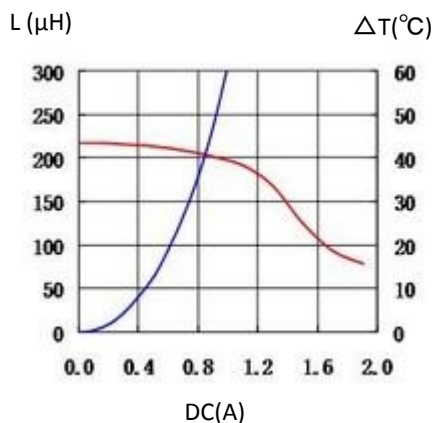
11. CDMPIH10D48BNP-121MC



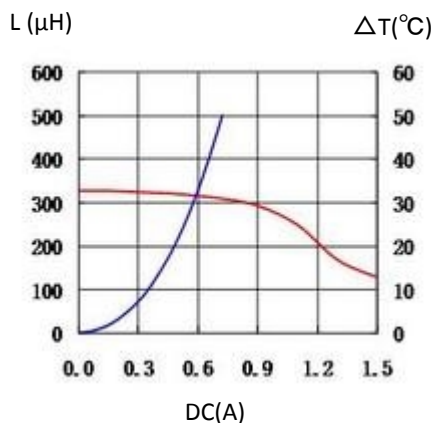
12. CDMPIH10D48BNP-151MC



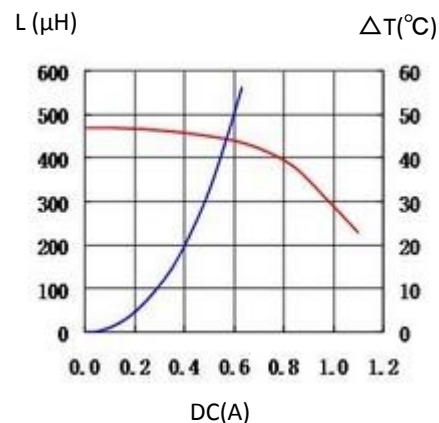
13. CDMPIH10D48BNP-221MC



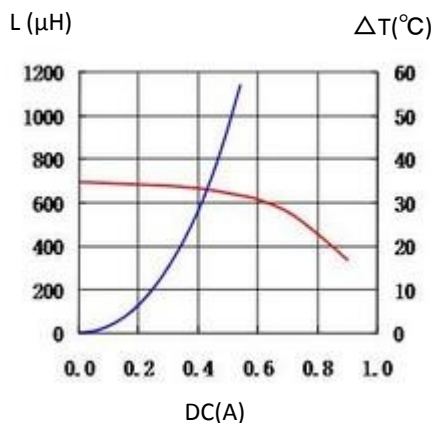
14. CDMPIH10D48BNP-331MC



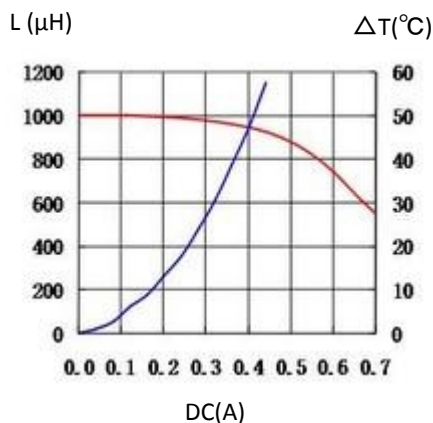
15. CDMPIH10D48BNP-471MC



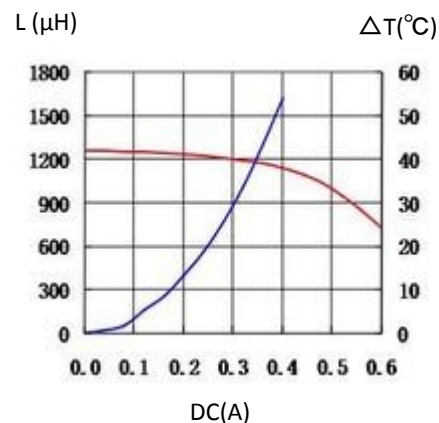
16. CDMPIH10D48BNP-681MC



17. CDMPIH10D48BNP-102MC



18. CDMPIH10D48BNP-122MC

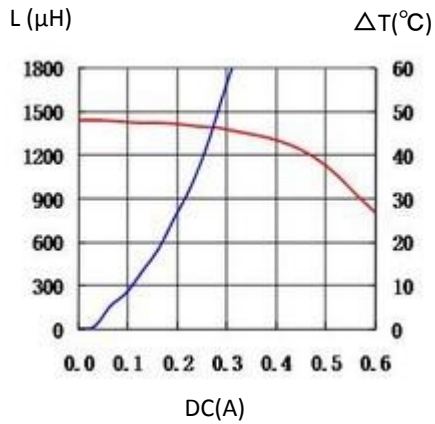


# SMD Power Inductor

## CDMPIH10D48B



19. CDMPIH10D48BNP-152MC



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