

# SMD Power Inductor

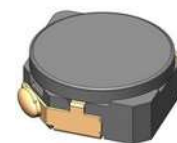
## CDMPIH10D38



New Recommended Type

### Description

- Ferrite core construction
- Magnetically shielded
- LxWxH: 10.7x10.3x4.0mm Max.
- Product weight: 1.8g(Ref.)
- Moisture Sensitivity Level: 1



### Environmental Data

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

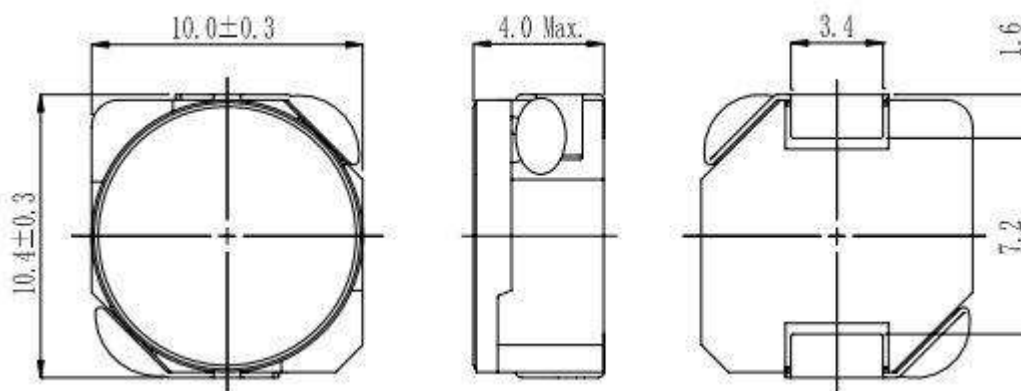
### Packaging

- Carrier tape and reel packaging
- 500pcs per reel

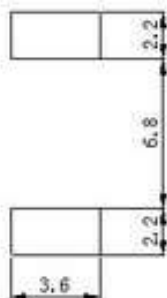
### Applications

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

### Dimension - [mm]



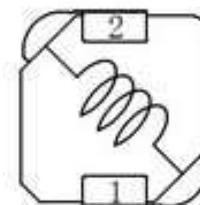
### Recommended Land pattern - [mm]



### Wire Connection



(1.5  $\mu$ H~22  $\mu$ H)



(33  $\mu$ H~100  $\mu$ H)

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### Electrical Characteristics

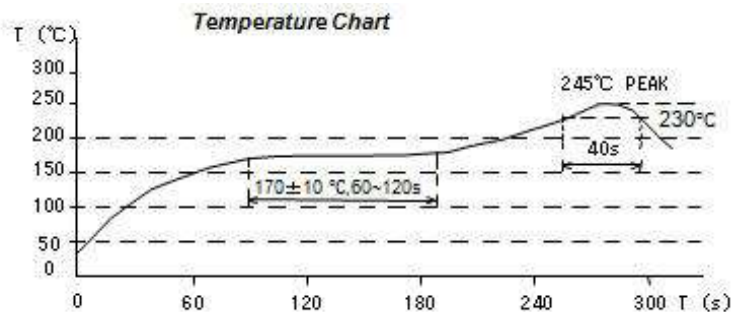
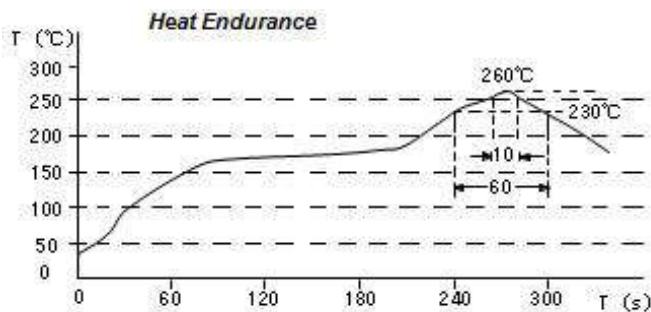
Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C max(typ) (m $\Omega$ )	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
CDMPIH10D38NP-1R5PC	1.50 $\pm$ 25%	16.80 (13.50)	13.00	6.70
CDMPIH10D38NP-2R2PC	2.20 $\pm$ 25%	19.30 (15.50)	11.60	6.00
CDMPIH10D38NP-2R7PC	2.70 $\pm$ 25%	23.70 (19.00)	10.80	5.20
CDMPIH10D38NP-3R6PC	3.60 $\pm$ 25%	27.80 (22.30)	9.50	4.80
CDMPIH10D38NP-4R7PC	4.70 $\pm$ 25%	32.10 (25.70)	8.40	4.30
CDMPIH10D38NP-6R2PC	6.20 $\pm$ 25%	40.50 (32.40)	7.40	3.90
CDMPIH10D38NP-100MC	10.00 $\pm$ 20%	58.80 (49.00)	5.80	3.00
CDMPIH10D38NP-150MC	15.00 $\pm$ 20%	75.60 (63.00)	4.60	2.60
CDMPIH10D38NP-220MC	22.00 $\pm$ 20%	110.80 (92.40)	3.70	2.20
CDMPIH10D38NP-330MC	33.00 $\pm$ 20%	165.30 (137.80)	3.20	1.70
CDMPIH10D38NP-470MC	47.00 $\pm$ 20%	221 (184.20)	2.70	1.50
CDMPIH10D38NP-680MC	68.00 $\pm$ 20%	280 (233.40)	2.20	1.30
CDMPIH10D38NP-101MC	100 $\pm$ 20%	416.60 (347.20)	1.80	1.10

※1 Measuring conditions Inductance at 100kHz 1V.

※2 Saturation current: This indicates the 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  $\Delta T=40^\circ\text{C}$ . (Ta=20°C).

### Solder Reflow Condition



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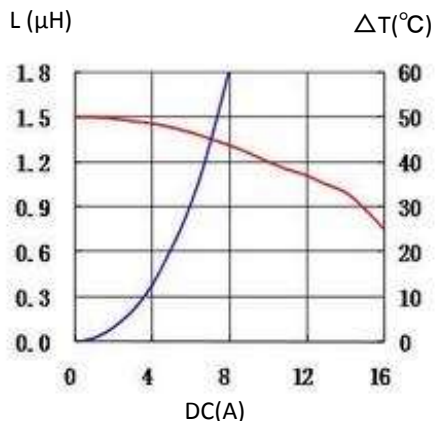


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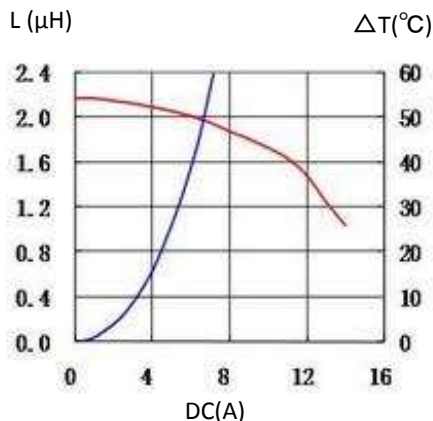
### Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

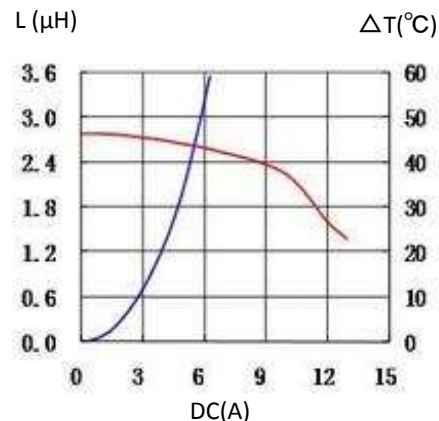
1. CDMPIH10D38NP-1R5PC



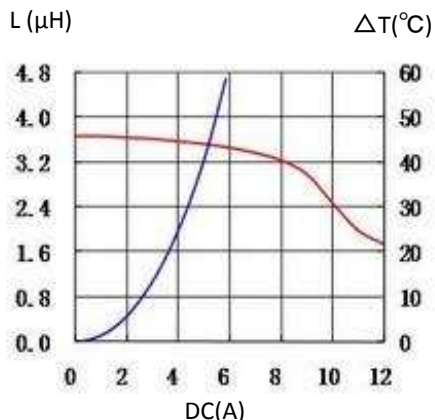
2. CDMPIH10D38NP-2R2PC



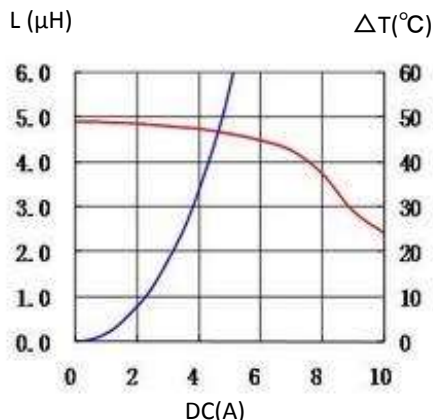
3. CDMPIH10D38NP-2R7PC



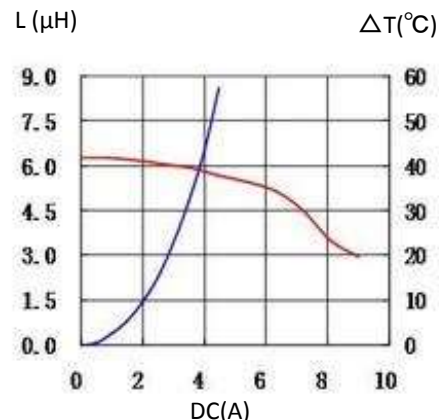
4. CDMPIH10D38NP-3R6PC



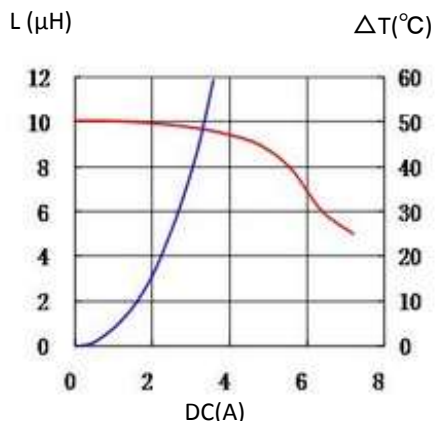
5. CDMPIH10D38NP-4R7PC



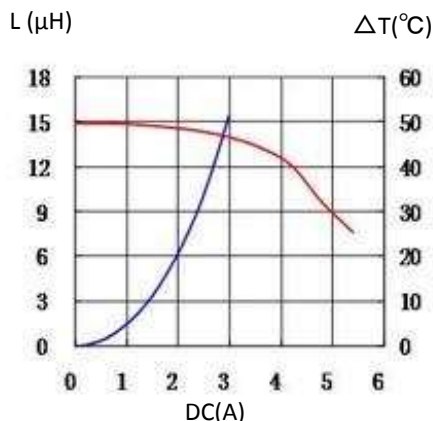
6. CDMPIH10D38NP-6R2PC



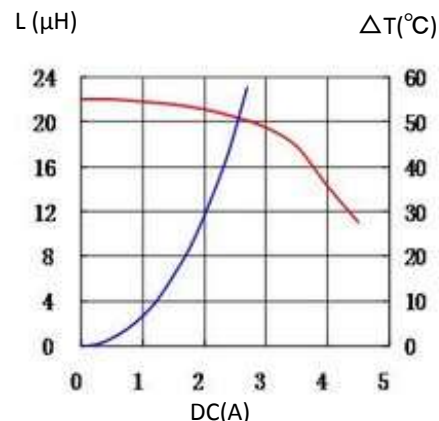
7. CDMPIH10D38NP-100MC



8. CDMPIH10D38NP-150MC



9. CDMPIH10D38NP-220MC



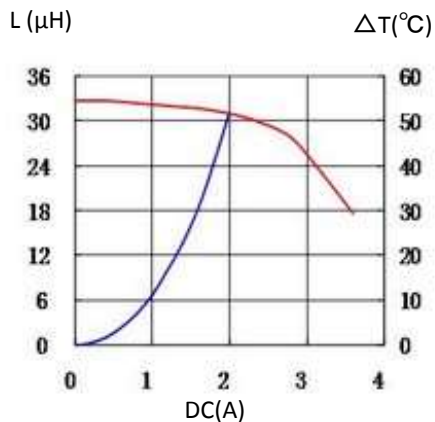
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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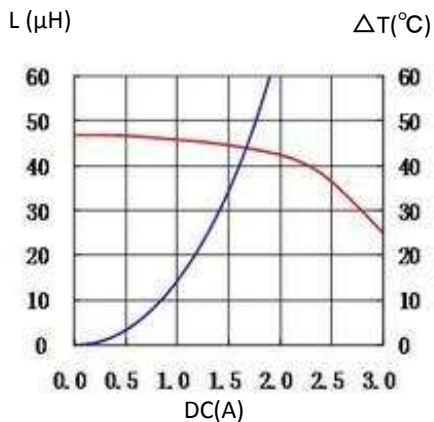
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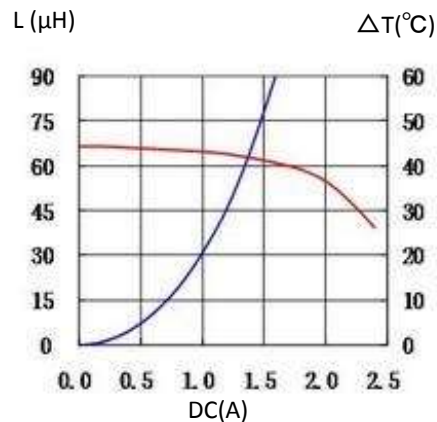
10. CDMPIH10D38NP-330MC



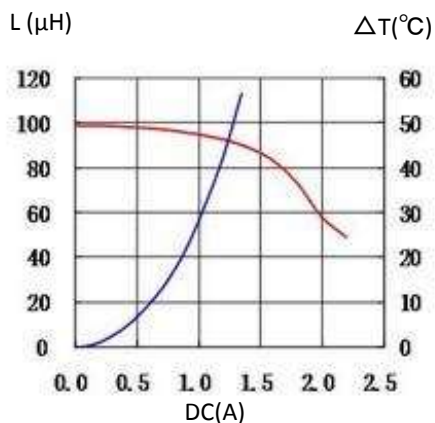
11. CDMPIH10D38NP-470MC



12. CDMPIH10D38NP-680MC



13. CDMPIH10D38NP-101MC



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