

# SMD Power Inductor

## CDRH6D38/T125



### Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 7.0x7.0 x4.0 mm Max.
- Product weight:0.6g(Ref.)
- Moisture Sensitivity Level: 1
- Qualification to AEC-Q200



### Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40°C~+125°C

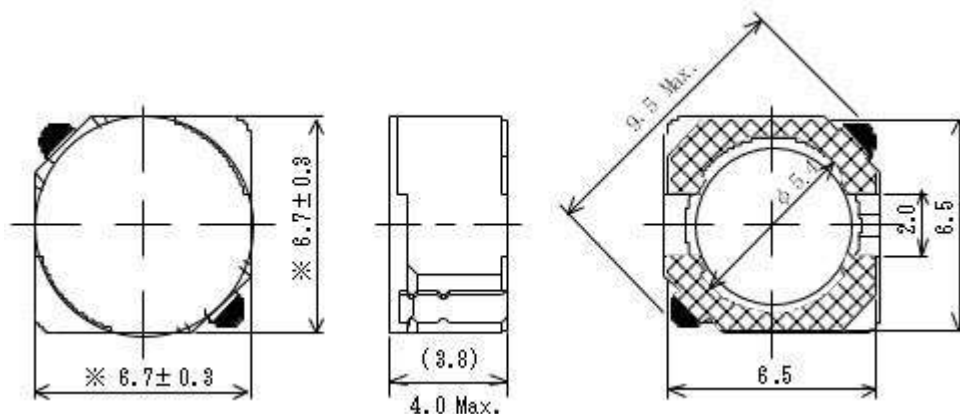
### Packaging

- Carrier tape and reel packaging

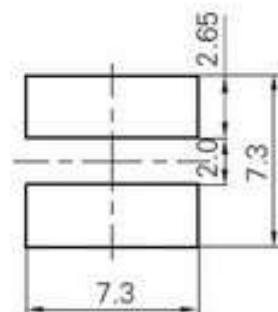
### Applications

- High temp and high reliability automotive applications

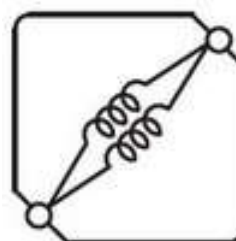
### Dimension - [mm]



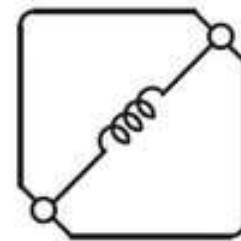
### Recommended Land pattern - [mm]



### Wire Connection



(3.0µH - 15µH)



(22µH - 100µH)

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### Electrical Characteristics

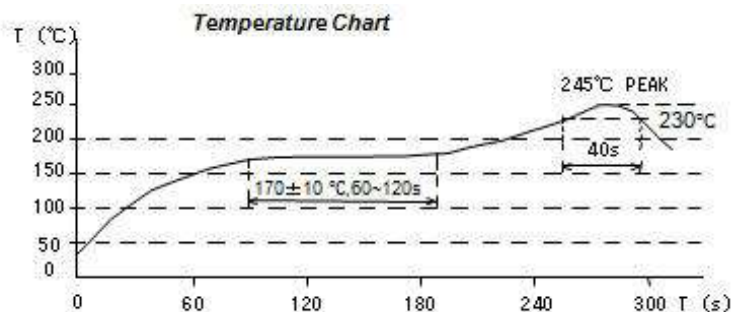
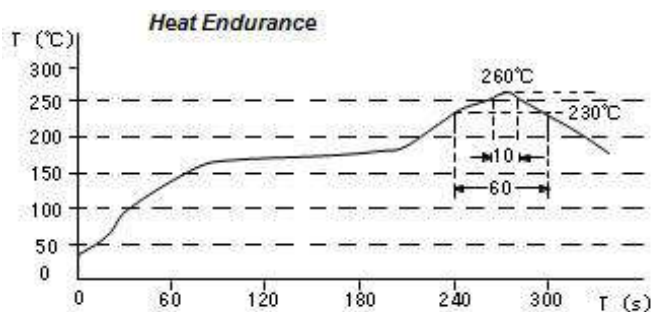
Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C Max.(Typ.) (m $\Omega$ )	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH6D38T125NP-3R0NC	3.00 $\pm$ 30%	22.00 (17.50)	3.90 (4.70)	4.50 (5.50)
CDRH6D38T125NP-3R9NC	3.90 $\pm$ 30%	24.50 (19.60)	3.30 (4.10)	4.00 (4.70)
CDRH6D38T125NP-4R7NC	4.70 $\pm$ 30%	27.50 (22.00)	3.10 (3.70)	3.80 (4.30)
CDRH6D38T125NP-5R6NC	5.60 $\pm$ 30%	30.50 (24.40)	2.85 (3.50)	3.50 (4.10)
CDRH6D38T125NP-6R8NC	6.80 $\pm$ 30%	33.00 (26.40)	2.60 (3.20)	3.30 (4.00)
CDRH6D38T125NP-100PC	10.00 $\pm$ 25%	43.50 (34.80)	2.20 (2.60)	3.00 (3.65)
CDRH6D38T125NP-150PC	15.00 $\pm$ 25%	59.80 (47.80)	1.80 (2.15)	2.20 (2.63)
CDRH6D38T125NP-220PC	22.00 $\pm$ 25%	103.40 (82.70)	1.50 (1.80)	1.65 (2.05)
CDRH6D38T125NP-330PC	33.00 $\pm$ 25%	145 (116)	1.25 (1.42)	1.45 (1.75)
CDRH6D38T125NP-470PC	47.00 $\pm$ 25%	181 (145)	1.00 (1.25)	1.20 (1.41)
CDRH6D38T125NP-680PC	68.00 $\pm$ 25%	250 (200)	0.85 (1.02)	1.00 (1.20)
CDRH6D38T125NP-101PC	100 $\pm$ 25%	372 (298)	0.68 (0.83)	0.85 (1.04)

※1. Inductance 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  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

### Solder Reflow Condition



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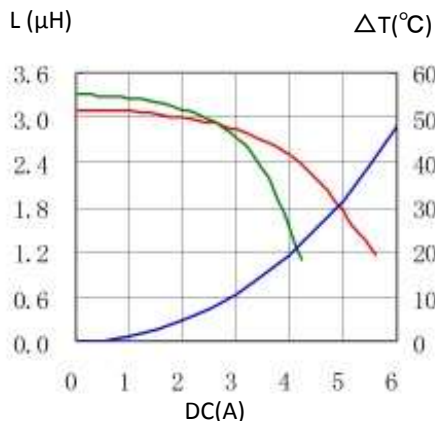
## CDRH6D38/T125



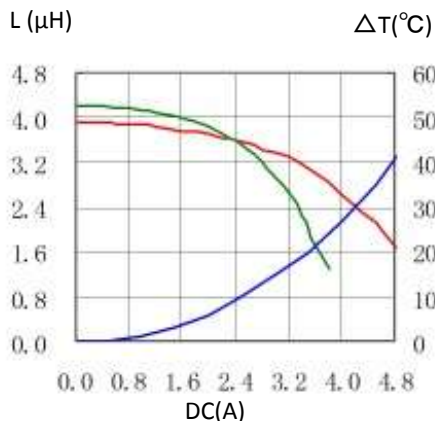
### Saturation Current & Temperature Rise Graph

— L (20°C)    — L (125°C)    —  $\Delta T$

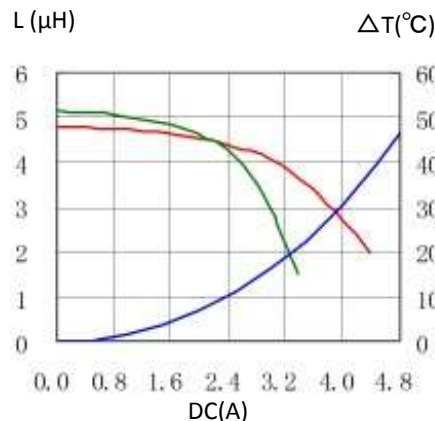
1. CDRH6D38T125NP-3R0NC



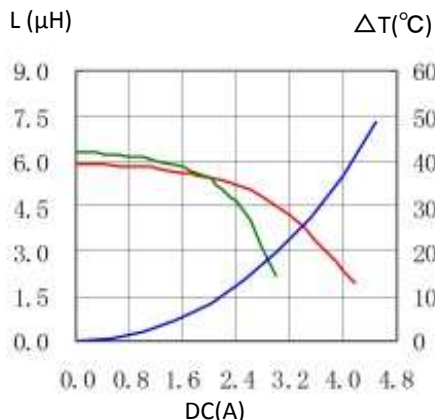
2. CDRH6D38T125NP-3R9NC



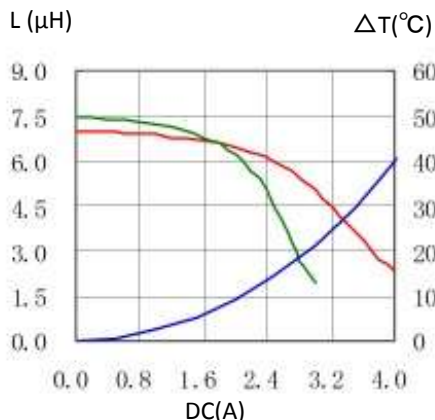
3. CDRH6D38T125NP-4R7NC



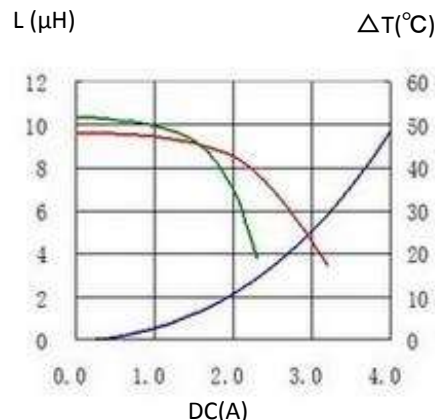
4. CDRH6D38T125NP-5R6NC



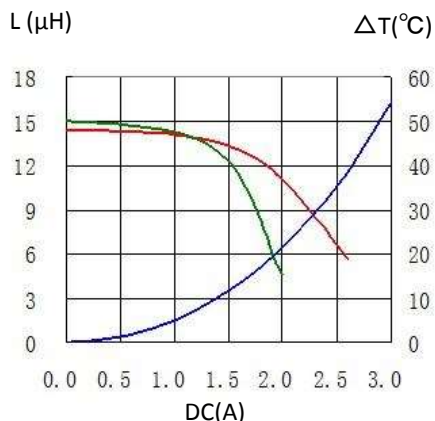
5. CDRH6D38T125NP-6R8NC



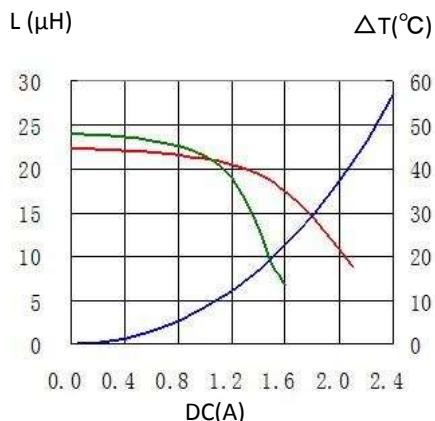
6. CDRH6D38T125NP-100PC



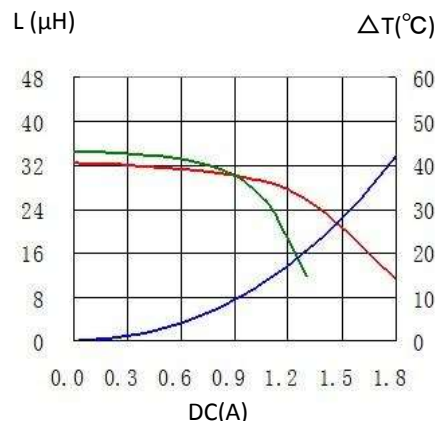
7. CDRH6D38T125NP-150PC



8. CDRH6D38T125NP-220PC



9. CDRH6D38T125NP-330PC



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

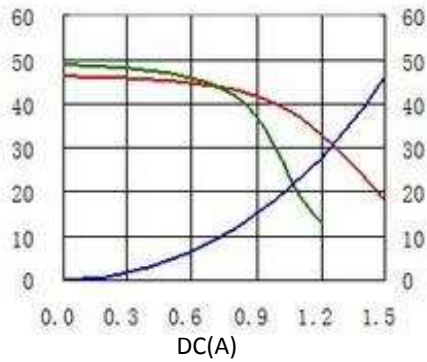
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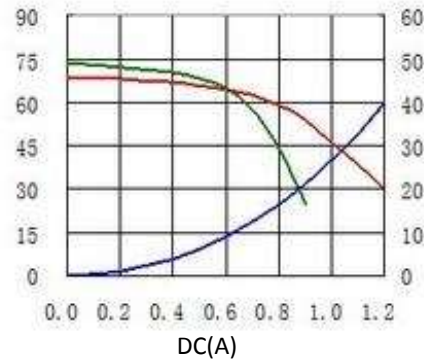
10. CDRH6D38T125NP-470PC

L ( $\mu\text{H}$ )  $\Delta\text{T}(\text{°C})$



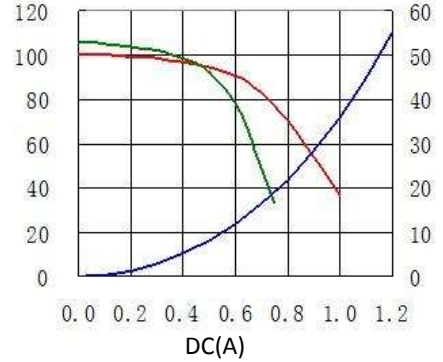
11. CDRH6D38T125NP-680PC

L ( $\mu\text{H}$ )  $\Delta\text{T}(\text{°C})$



12. CDRH6D38T125NP-101PC

L ( $\mu\text{H}$ )  $\Delta\text{T}(\text{°C})$



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