

# SMD Power Inductor

## CDRR7D45/T125



### Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 7.2x7.2x4.8 mm Max.
- Product weight:0.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



### Environmental Data

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

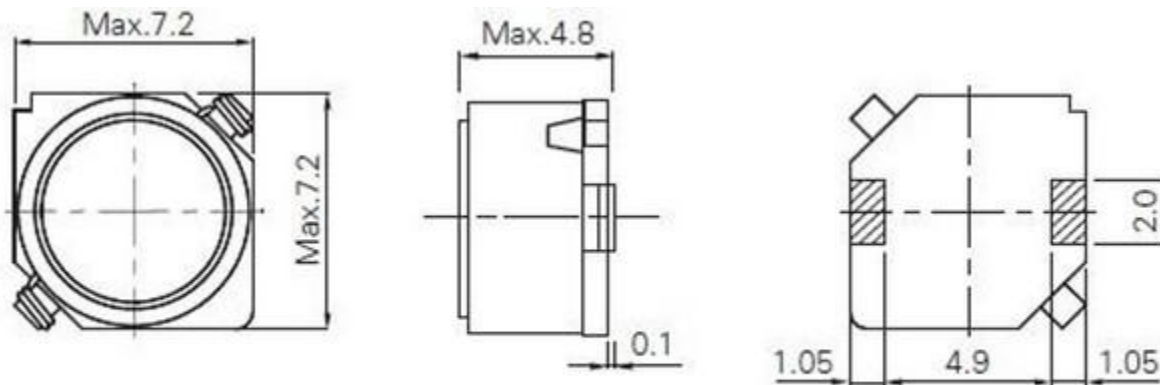
### Packaging

- Carrier tape and reel packaging

### Applications

- High temp and high reliability automotive applications

### Dimension - [mm]



\*Dimension does not include the soldering joint between the coil and terminal

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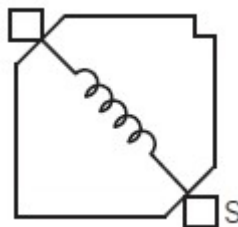
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### Recommended Land pattern - [mm]



### Wire Connection



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### Electrical Characteristics

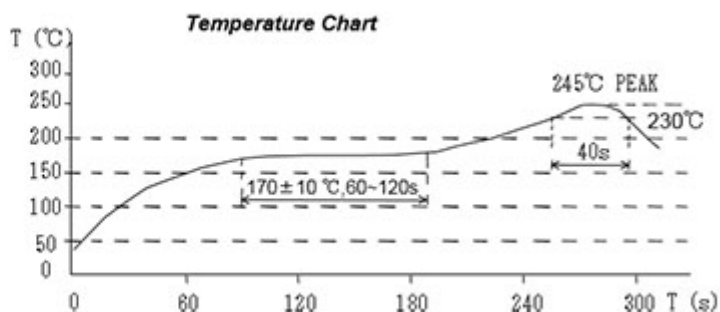
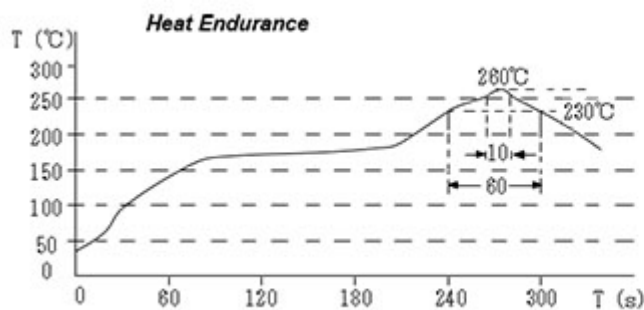
Part Number	Inductance [Within] ( $\mu\text{H}$ ) ※1	D.C.R. at 20°C [Within] (m $\Omega$ )	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRR7D45T125NP-3R3MC	3.30 $\pm$ 20%	28.00 $\pm$ 20%	3.50 (4.40)	3.20 (3.65)
CDRR7D45T125NP-4R7MC	4.70 $\pm$ 20%	31.00 $\pm$ 20%	2.80 (3.58)	2.90 (3.34)
CDRR7D45T125NP-6R8MC	6.80 $\pm$ 20%	39.00 $\pm$ 20%	2.40 (3.02)	2.45 (2.81)
CDRR7D45T125NP-100MC	10.00 $\pm$ 20%	47.00 $\pm$ 20%	1.96 (2.47)	2.25 (2.60)
CDRR7D45T125NP-150MC	15.00 $\pm$ 20%	68.00 $\pm$ 20%	1.64 (2.08)	1.85 (2.10)
CDRR7D45T125NP-220MC	22.00 $\pm$ 20%	82.00 $\pm$ 20%	1.36 (1.70)	1.60 (1.82)
CDRR7D45T125NP-330MC	33.00 $\pm$ 20%	120 $\pm$ 20%	1.21 (1.45)	1.30 (1.50)
CDRR7D45T125NP-470MC	47.00 $\pm$ 20%	180 $\pm$ 20%	0.94 (1.17)	1.10 (1.27)
CDRR7D45T125NP-680MC	68.00 $\pm$ 20%	270 $\pm$ 20%	0.78 (0.95)	0.90 (1.04)
CDRR7D45T125NP-101MC	100 $\pm$ 20%	390 $\pm$ 20%	0.62 (0.76)	0.73 (0.85)
CDRR7D45T125NP-151MC	150 $\pm$ 20%	550 $\pm$ 20%	0.52 (0.65)	0.65 (0.74)
CDRR7D45T125NP-221MC	220 $\pm$ 20%	830 $\pm$ 20%	0.44 (0.56)	0.54 (0.60)
CDRR7D45T125NP-331MC	330 $\pm$ 20%	1150 $\pm$ 20%	0.35 (0.46)	0.44 (0.50)
CDRR7D45T125NP-471MC	470 $\pm$ 20%	1800 $\pm$ 20%	0.31 (0.38)	0.36 (0.41)

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's 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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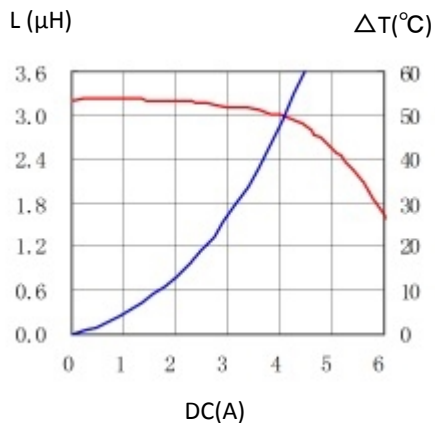
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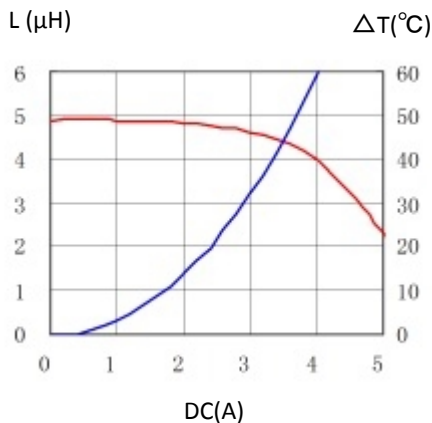
### Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$

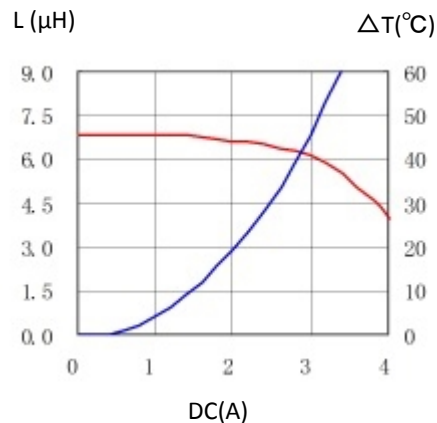
1. CDRR7D45T125NP-3R3MC



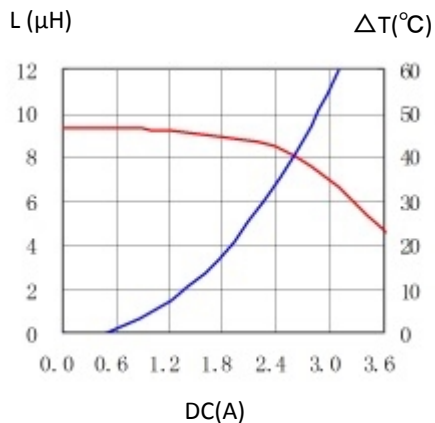
2. CDRR7D45T125NP-4R7MC



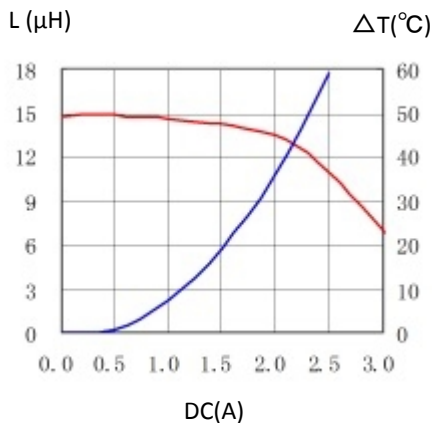
3. CDRR7D45T125NP-6R8MC



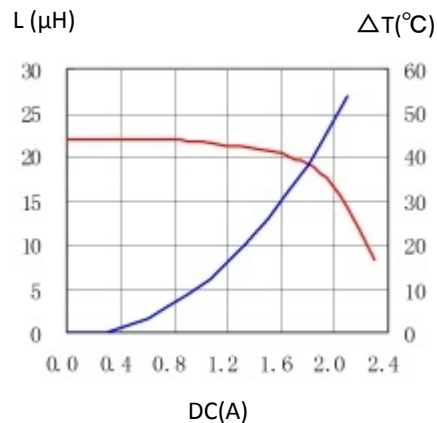
4. CDRR7D45T125NP-100MC



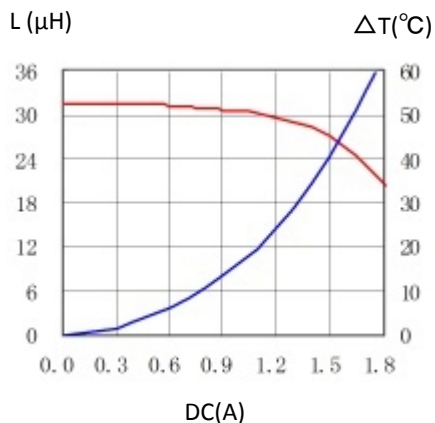
5. CDRR7D45T125NP-150MC



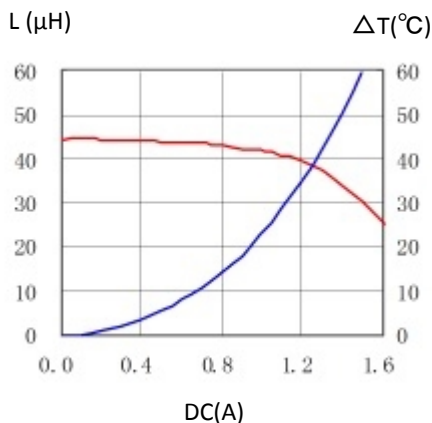
6. CDRR7D45T125NP-220MC



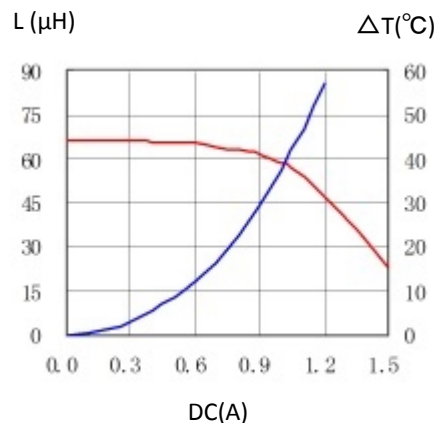
7. CDRR7D45T125NP-330MC



8. CDRR7D45T125NP-470MC



9. CDRR7D45T125NP-680MC



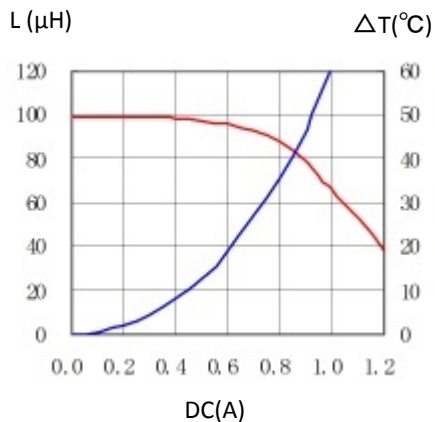
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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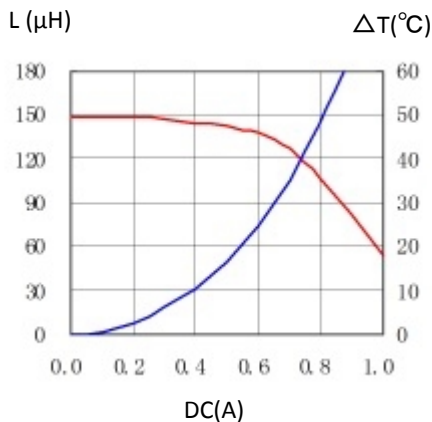
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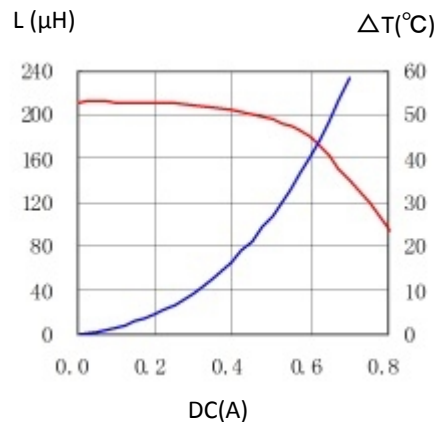
10. CDRR7D45T125NP-101MC



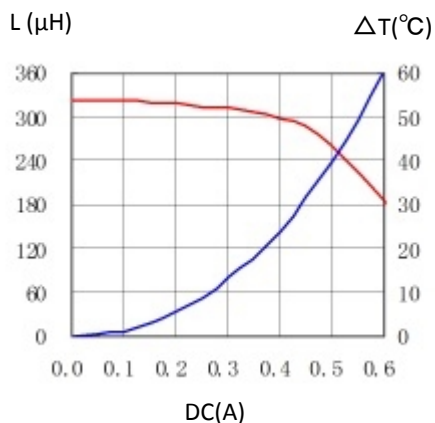
11. CDRR7D45T125NP-151MC



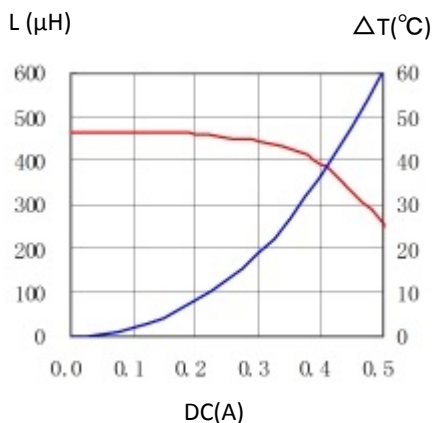
12. CDRR7D45T125NP-221MC



13. CDRR7D45T125NP-331MC



14. CDRR7D45T125NP-471MC



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