# THE DATASHEET OF

# CDRR7D45T125NP-4R7MC

# SMD Power Inductor

## CDRR7D45/T125

### Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 7.2×7.2×4.8 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℃～+125℃

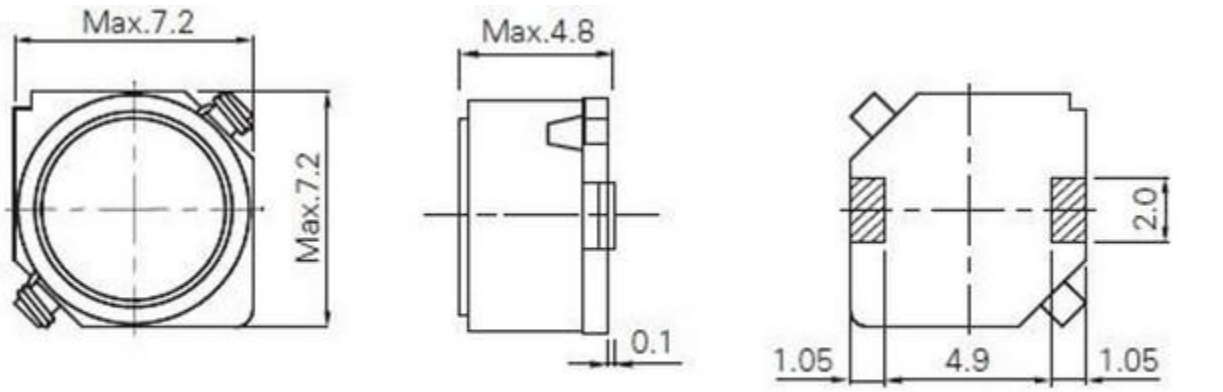
### Packaging

- 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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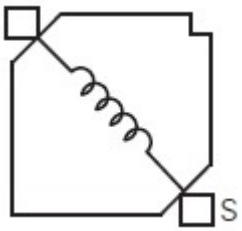
### Recommended Land pattern - [mm]


### Wire Connection



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## Electrical Characteristics

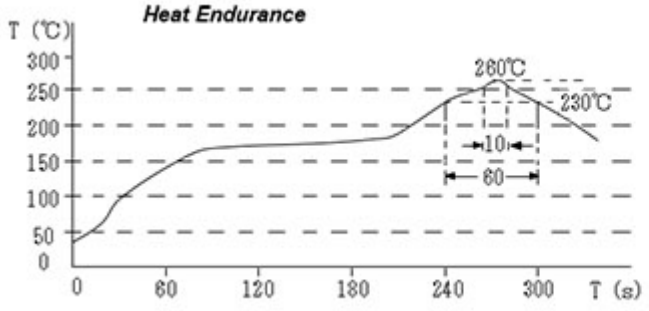
| Part Number | Inductance [Within] (μH) ※1 | D.C.R. at 20℃ [Within] (mΩ) | Saturation Current (A) Max.(Typ.) ※2 | Temperature Rise Current (A) Max.(Typ.) ※3 |
|---|---|---|---|---|
| CDRR7D45T125NP-3R3MC | 3.30 ± 20% | 28.00 ± 20% | 3.50 (4.40) | 3.20 (3.65) |
| CDRR7D45T125NP-4R7MC | 4.70 ± 20% | 31.00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

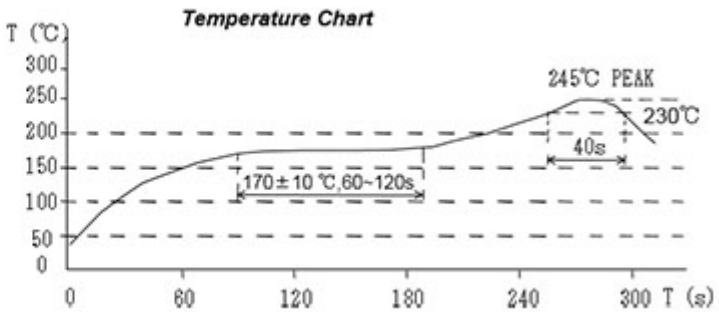
※1. Inductance measuring condition: at 100 kHz.

※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 △t＝40℃(Ta＝20℃).

## Solder Reflow Condition

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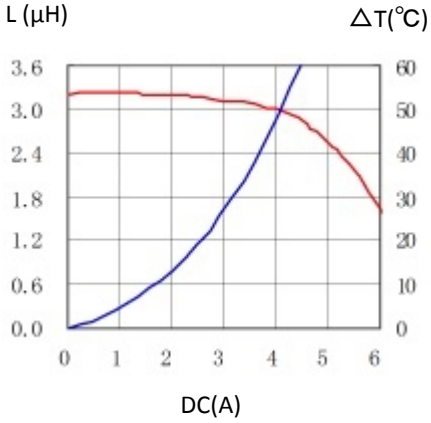
# SMD Power Inductor

## CDRR7D45/T125

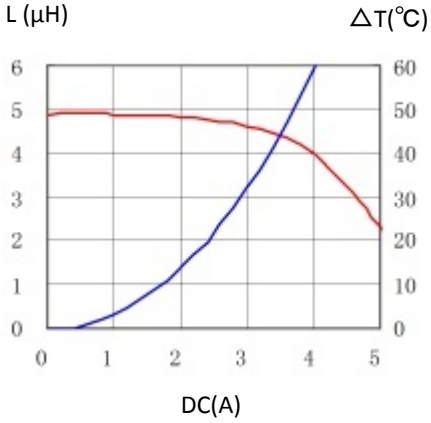
## Saturation Current & Temperature Rise Graph

L (20℃) △T

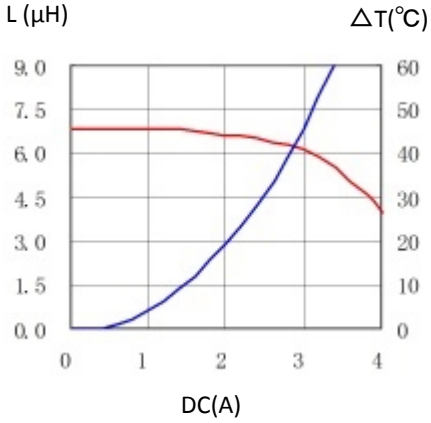
1. CDRR7D45T125NP-3R3MC



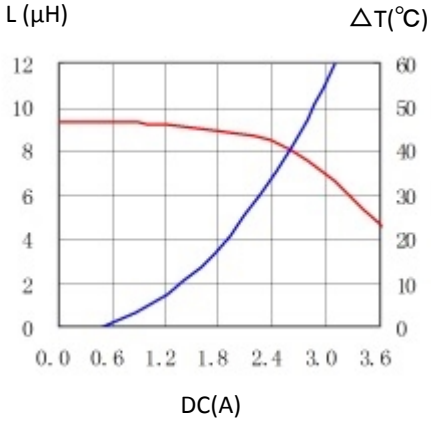

2. CDRR7D45T125NP-4R7MC



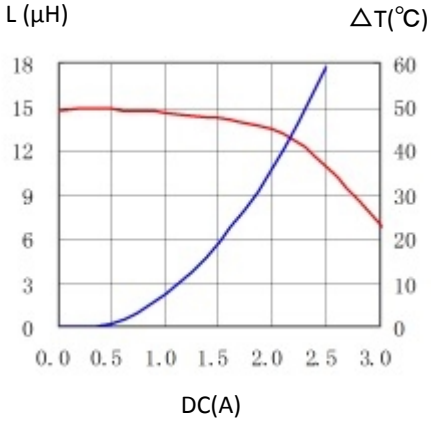

3. CDRR7D45T125NP-6R8MC



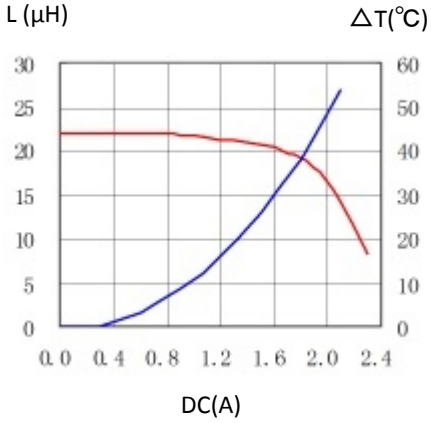

4. CDRR7D45T125NP-100MC



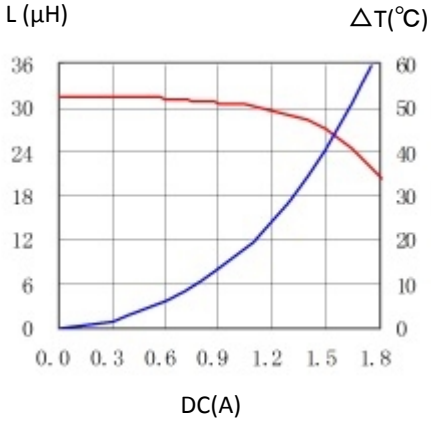

5. CDRR7D45T125NP-150MC



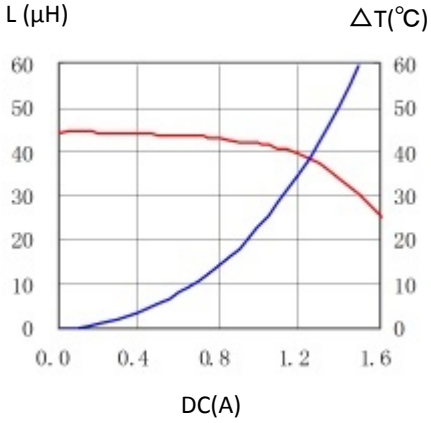

6. CDRR7D45T125NP-220MC



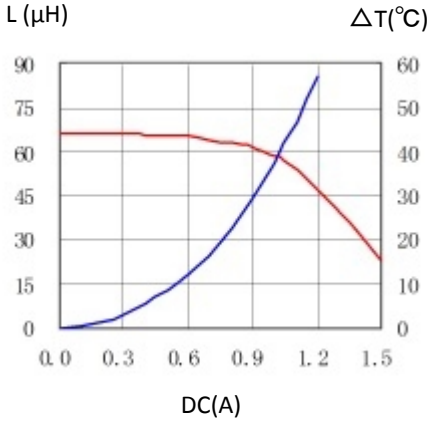

7. CDRR7D45T125NP-330MC




8. CDRR7D45T125NP-470MC




9. CDRR7D45T125NP-680MC

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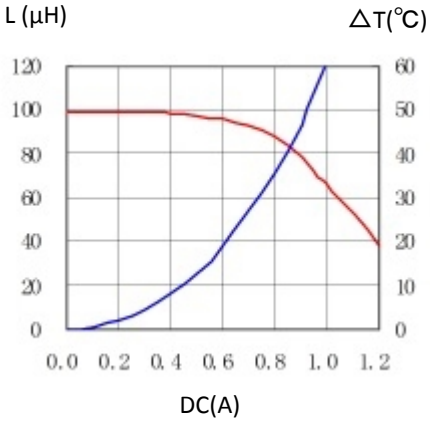
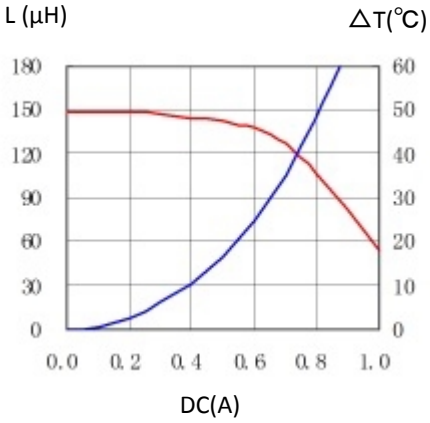
## CDRR7D45/T125

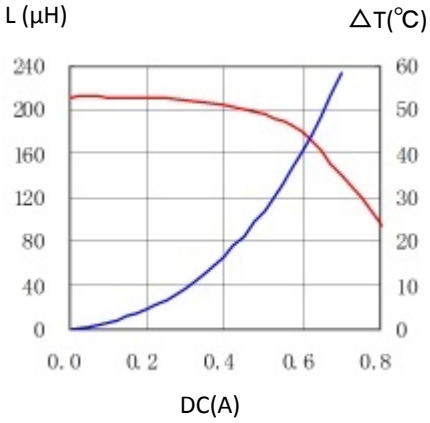
10. CDRR7D45T125NP-101MC



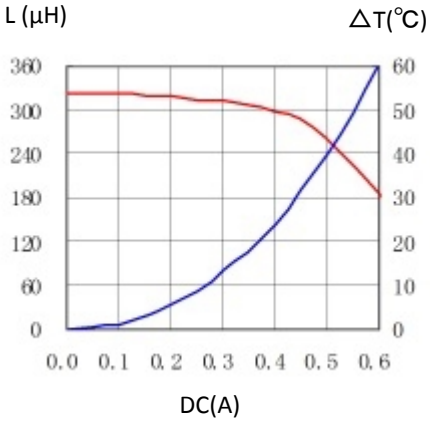

11. CDRR7D45T125NP-151MC



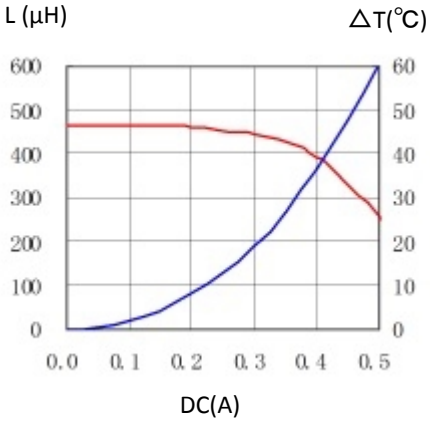

12. CDRR7D45T125NP-221MC




13. CDRR7D45T125NP-331MC




14. CDRR7D45T125NP-471MC

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