# SMD Power Inductor

## 0320CDMCC/DS

Recommended Type

### Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current
- L×W×H:3.7×3.4×2.0mm Max.
- Product weight: 0.107g (Ref.)
- Moisture Sensitivity Level: 1

### Environmental Data

- Operating temperature range: -55℃ ~ +125℃ (including coil's self temperature rise)
- Storage temperature range: -55℃ ~ +125℃

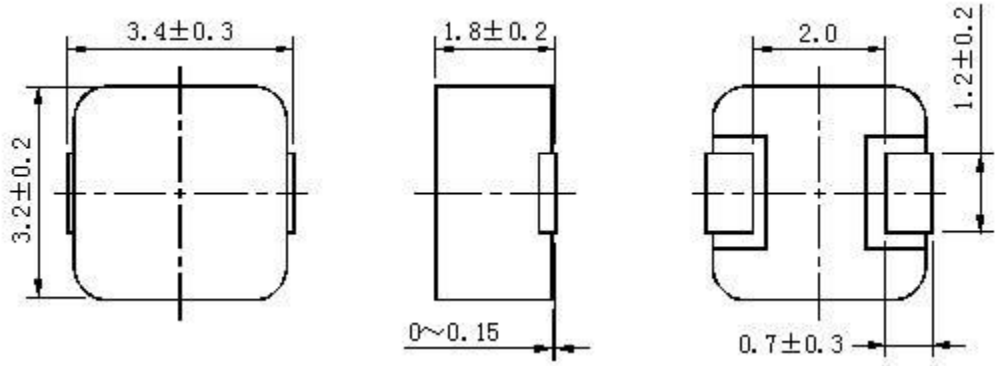
### Packaging

- Carrier tape and reel packaging
- 3000pcs per reel

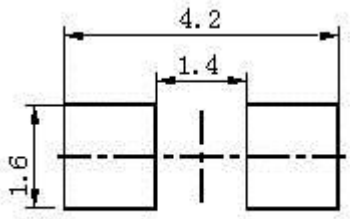
### Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, server application
- HDD,SSD modules application
- Low profile, high current power supplies
- Battery powered devices
- High current, POL converters
- DC/DC converter in distributed power systems

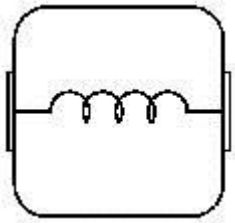
### Dimension - [mm]




### Recommended Land pattern - [mm]




### Wire Connection



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### Electrical Characteristics

| Part Number | Inductance [Within] (μH) ※1 | D.C.R. at 20℃ Max.(Typ.) (mΩ) | Saturation Current (A) Max.(Typ.) ※2 | Temperature Rise Current (A) Max.(Typ.) ※3 |
|---|---|---|---|---|
| 0320CDMCCDS-R22MC | 0.22 ± 20% | 10.20 (8.50) | 6.90 (8.10) | (10.00) |
| 0320CDMCCDS-R33MC | 0.33 ± 20% | 11.40 (9.50) | 6.50 (7.60) | (9.50) |
| 0320CDMCCDS-R47MC | 0.47 ± 20% | 15.60 (13.00) | 5.20 (6.20) | (7.50) |
| 0320CDMCCDS-R56MC | 0.56 ± 20% | 18.00 (15.00) | 4.80 (5.70) | (7.00) |
| 0320CDMCCDS-R68MC | 0.68 ± 20% | 21.60 (18.00) | 4.60 (5.40) | (6.50) |
| 0320CDMCCDS-R82MC | 0.82 ± 20% | 27.00 (22.50) | 4.50 (5.30) | (5.60) |
| 0320CDMCCDS-1R0MC | 1.00 ± 20% | 31.20 (26.00) | 4.40 (5.20) | (5.50) |
| 0320CDMCCDS-1R5MC | 1.50 ± 20% | 45.60 (38.00) | 3.20 (3.80) | (4.00) |
| 0320CDMCCDS-2R2MC | 2.20 ± 20% | 72.00 (60.00) | 2.90 (3.40) | (3.50) |
| 0320CDMCCDS-3R3MC | 3.30 ± 20% | 108 (90.00) | 2.10 (2.50) | (2.50) |

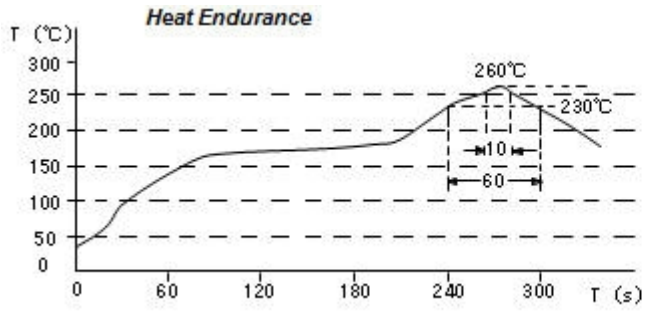
※1 Measuring frequency inductance at 100KHz, 1.0V

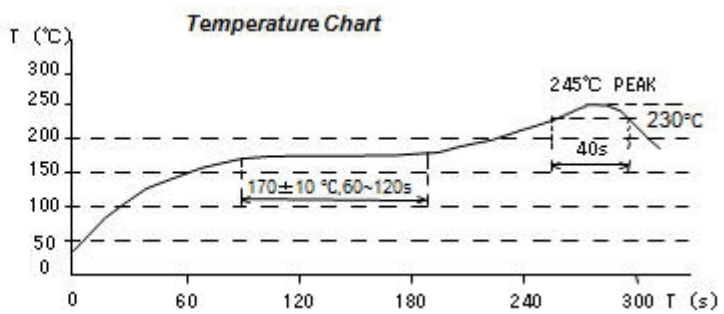
※2 Saturation current: The actual value of DC current when the inductance is over 70% of the initial value.

※3 Temperature rise current: The actual value of DC current when the coil temperature rise is △T=40℃.

△T=40℃ (Ta=25℃) Board conditions: FR4, Copper=70μm, four-layer PWB, t=1.6mm.

### Solder Reflow Condition

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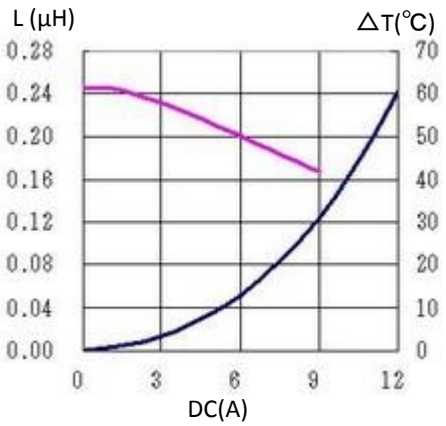
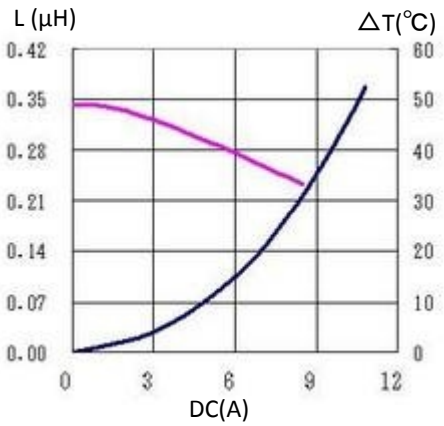
### Saturation Current & Temperature Rise Graph

L (20°C) ΔT

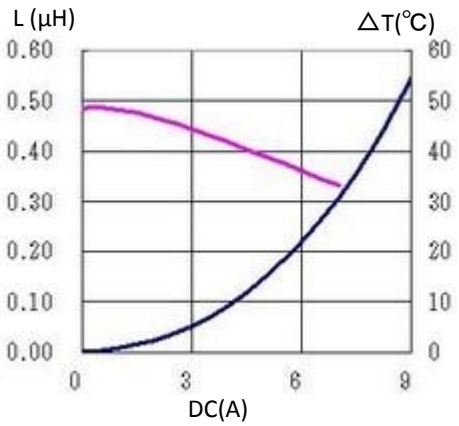
1. 0320CDMCCDS-R22MC



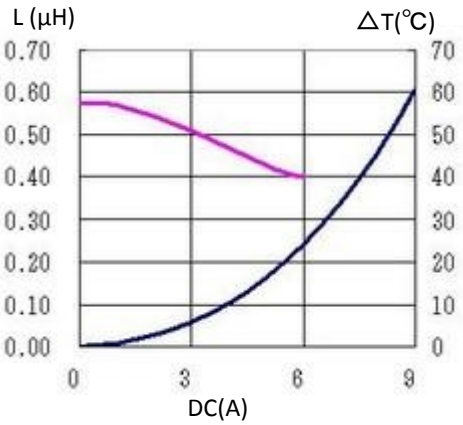

2. 0320CDMCCDS-R33MC



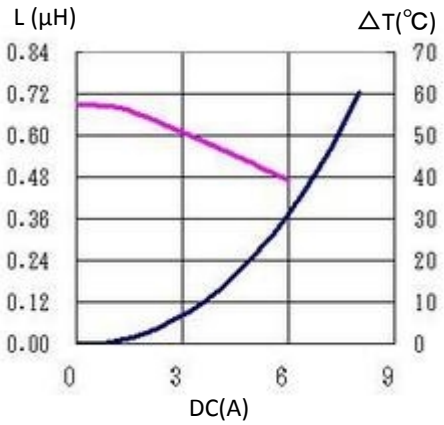

3. 0320CDMCCDS-R47MC



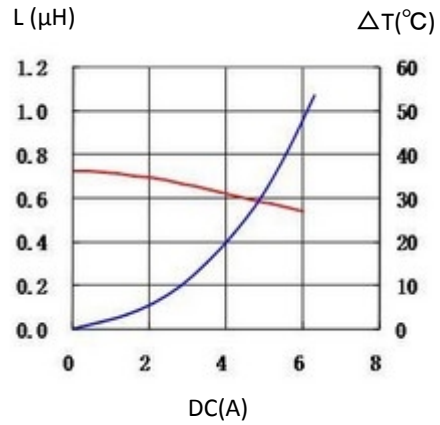

4. 0320CDMCCDS-R56MC



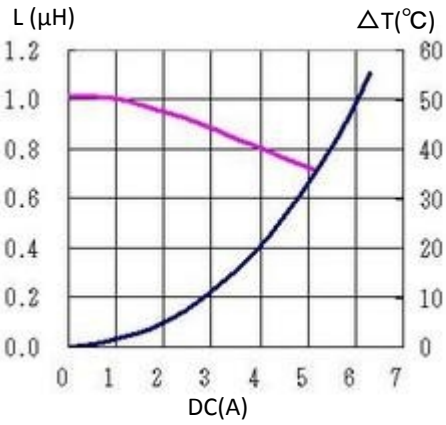

5. 0320CDMCCDS-R68MC



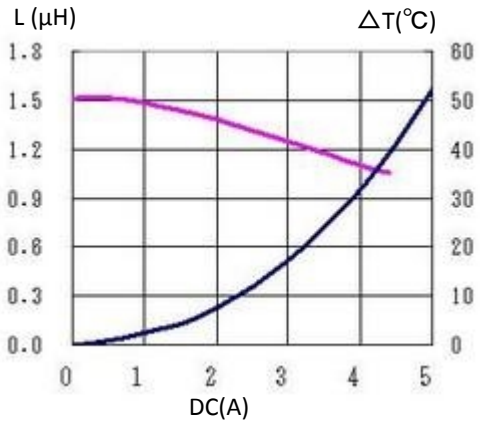

6. 0320CDMCCDS-R82MC



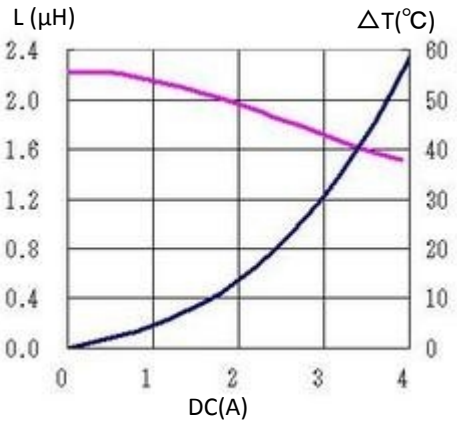

7. 0320CDMCCDS-1R0MC




8. 0320CDMCCDS-1R5MC




9. 0320CDMCCDS-2R2MC

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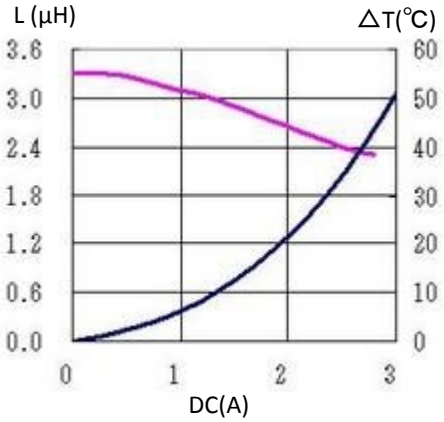
10. 0320CDMCCDS-3R3MC

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