

SMD Power Inductor

0840CDMCC/DS



Recommended Type

Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current
- LxWxH: 8.4x8.0x4.0mm Max.
- Product weight: 1.28g (Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

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

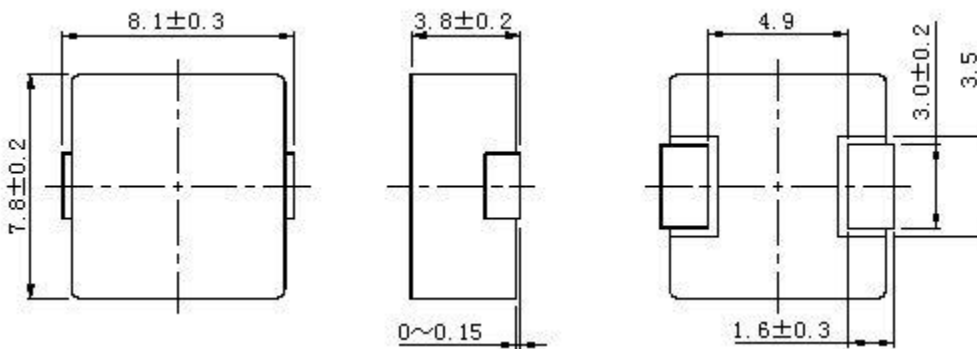
Packaging

- Carrier tape and reel packaging
- 1,000pcs per reel

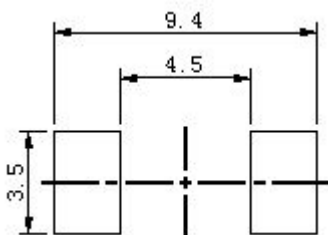
Applications

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

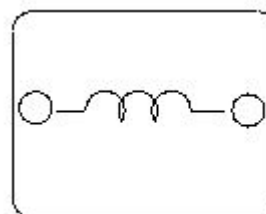
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

| Part Number | Inductance [Within] (μ H) ※1 | D.C.R. at 20°C Max.(Typ.) (m Ω) | Saturation Current (A) Max.(Typ.) ※2 | Temperature Rise Current (A) Max.(Typ.) ※3 |
|-------------------|-----------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------|
| 0840CDMCCDS-R22MC | 0.22 \pm 20% | 2.40 (2.00) | 34.50 (40.50) | (29.00) |
| 0840CDMCCDS-R33MC | 0.33 \pm 20% | 3.00 (2.50) | 27.50 (32.50) | (24.00) |
| 0840CDMCCDS-R47MC | 0.47 \pm 20% | 3.80 (3.20) | 20.50 (24.50) | (21.00) |
| 0840CDMCCDS-R68MC | 0.68 \pm 20% | 4.30 (3.60) | 17.50 (20.50) | (18.00) |
| 0840CDMCCDS-R82MC | 0.82 \pm 20% | 5.00 (4.20) | 16.00 (19.00) | (17.00) |
| 0840CDMCCDS-1R0MC | 1.00 \pm 20% | 5.60 (4.70) | 15.30 (18.00) | (16.50) |
| 0840CDMCCDS-1R5MC | 1.50 \pm 20% | 8.40 (7.00) | 13.00 (15.30) | (13.00) |
| 0840CDMCCDS-2R2MC | 2.20 \pm 20% | 9.60 (8.00) | 10.70 (12.60) | (12.50) |
| 0840CDMCCDS-3R3MC | 3.30 \pm 20% | 15.00 (12.50) | 9.20 (10.80) | (10.00) |
| 0840CDMCCDS-4R7MC | 4.70 \pm 20% | 24.00 (20.00) | 7.00 (8.00) | (7.30) |
| 0840CDMCCDS-5R6MC | 5.60 \pm 20% | 26.50 (22.00) | 6.50 (7.70) | (7.00) |
| 0840CDMCCDS-6R8MC | 6.80 \pm 20% | 34.00 (28.00) | 6.40 (7.50) | (6.00) |
| 0840CDMCCDS-8R2MC | 8.20 \pm 20% | 38.50 (32.00) | 6.10 (7.20) | (5.50) |
| 0840CDMCCDS-100MC | 10.00 \pm 20% | 54.00 (45.00) | 5.40 (6.30) | (4.80) |
| 0840CDMCCDS-150MC | 15.00 \pm 20% | 70.00 (59.00) | 4.40 (5.20) | (4.50) |
| 0840CDMCCDS-220MC | 22.00 \pm 20% | 98.50 (82.00) | 4.20 (5.00) | (3.60) |
| 0840CDMCCDS-330MC | 33.00 \pm 20% | 174 (145) | 2.70 (3.20) | (2.80) |

※1 Measuring frequency Inductance at 100kHz 1V.

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value.

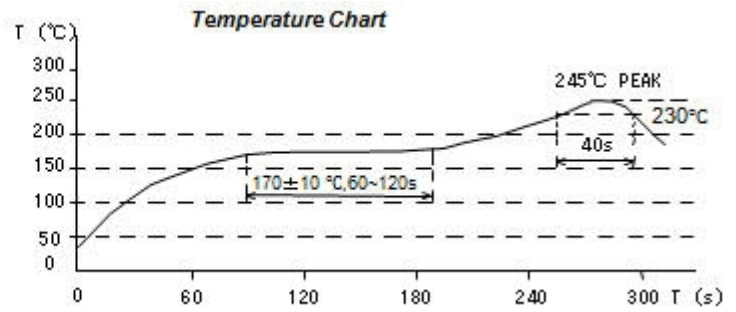
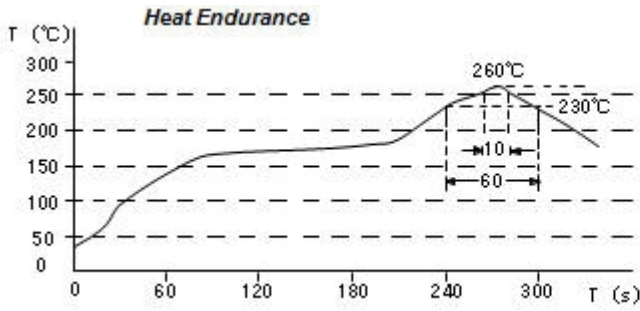
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$). (Test board condition: FR4, Copper=70 μ m, four-layer PWB t=1.6mm)

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Solder Reflow Condition



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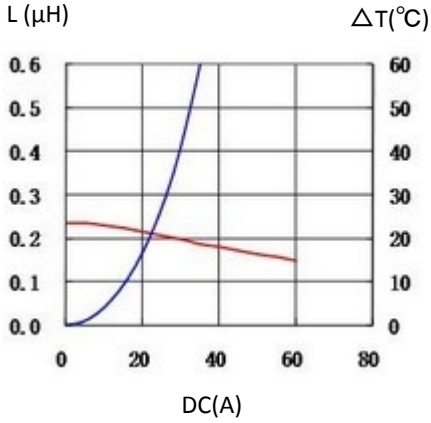
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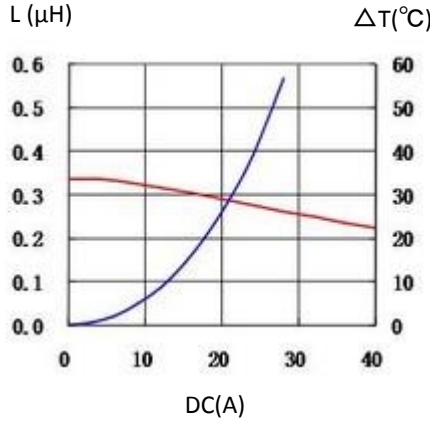
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

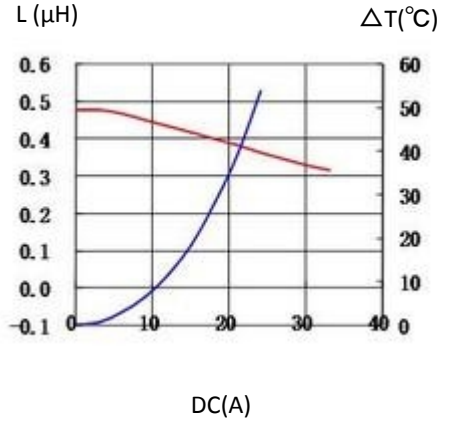
1. 0840CDMCCDS-R22MC



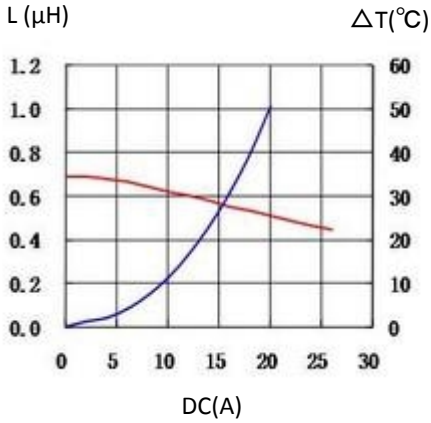
2. 0840CDMCCDS-R33MC



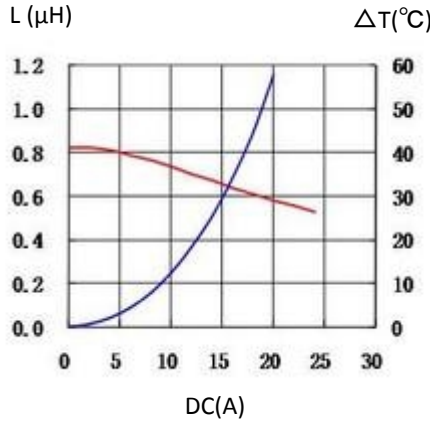
3. 0840CDMCCDS-R47MC



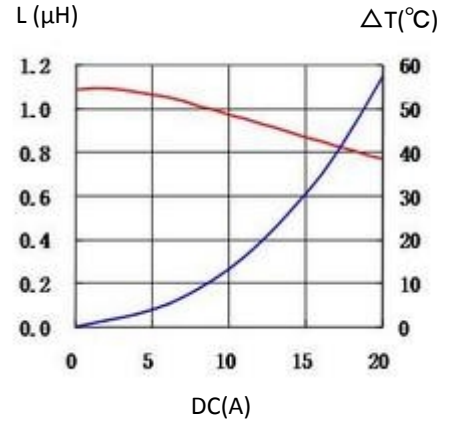
4. 0840CDMCCDS-R68MC



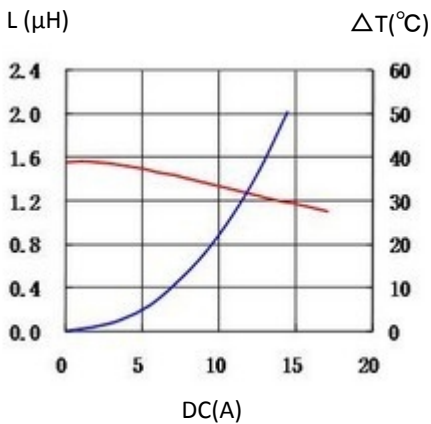
5. 0840CDMCCDS-R82MC



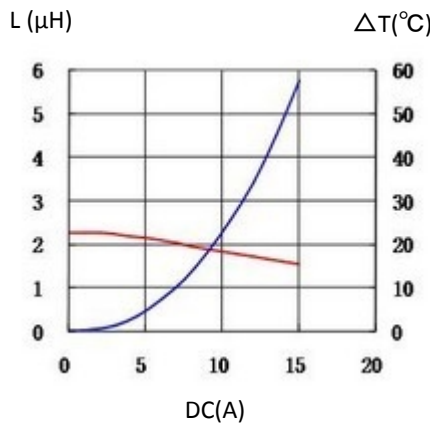
6. 0840CDMCCDS-1R0MC



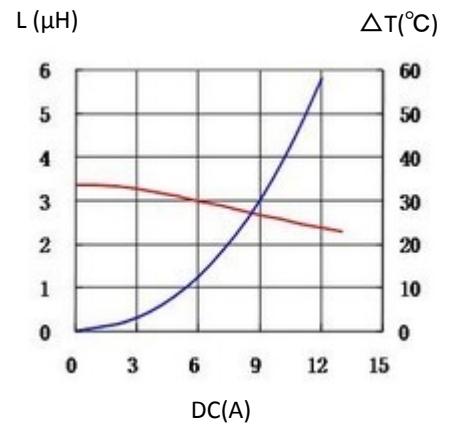
7. 0840CDMCCDS-1R5MC



8. 0840CDMCCDS-2R2MC



9. 0840CDMCCDS-3R3MC



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

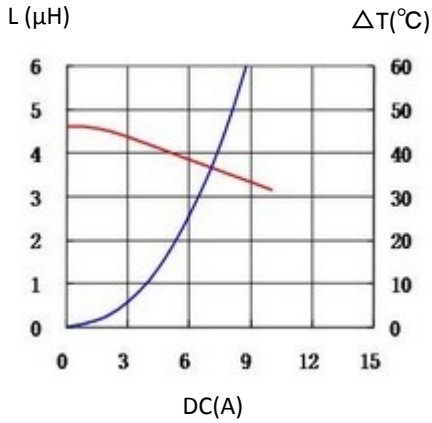
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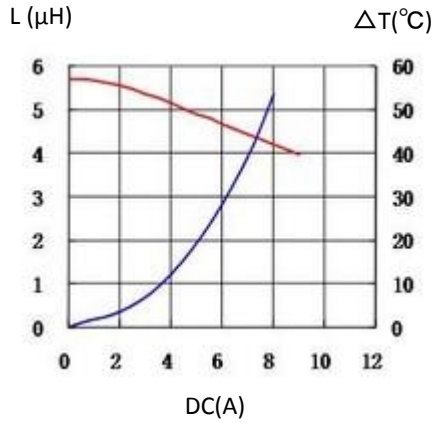


Recommended Type

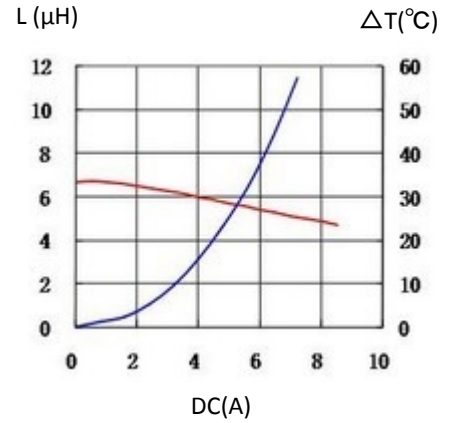
10. 0840CDMCCDS-4R7MC



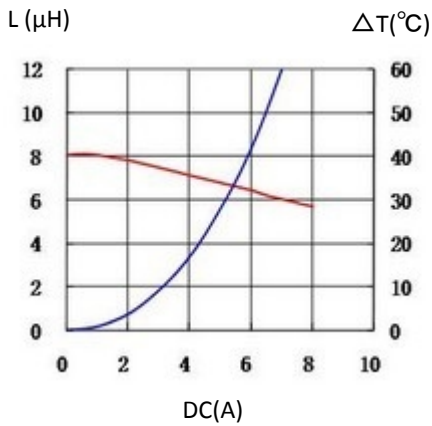
11. 0840CDMCCDS-5R6MC



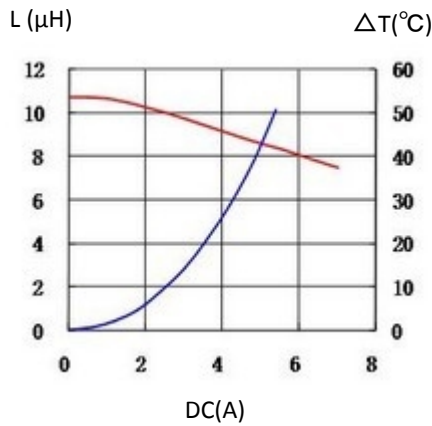
12. 0840CDMCCDS-6R8MC



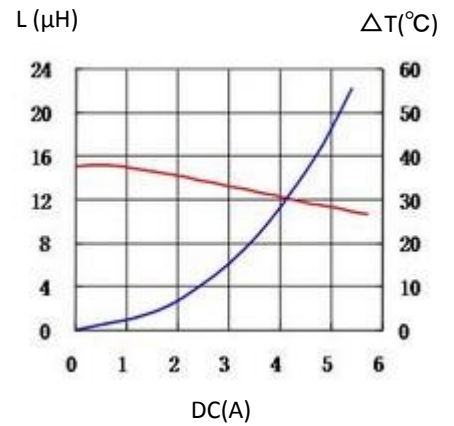
13. 0840CDMCCDS-8R2MC



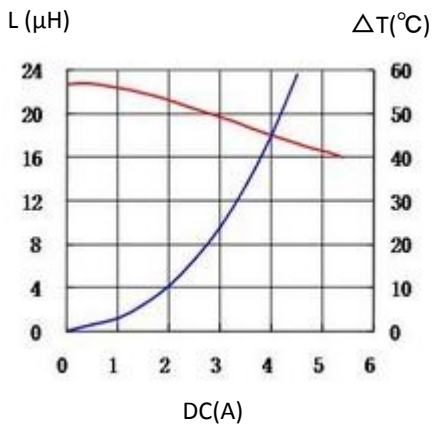
14. 0840CDMCCDS-100MC



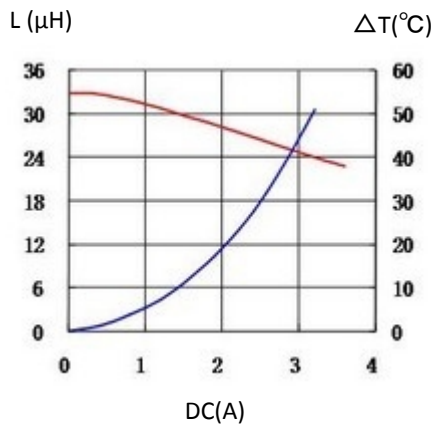
15. 0840CDMCCDS-150MC



16. 0840CDMCCDS-220MC



17. 0840CDMCCDS-330MC



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