SMD Power Inductor

0512CDMCC/DS

RoHS Compliance Cd: Max. 0.01wt% Others: Max. 0.1wt%

Halogen Free

Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- L×W×H:5.7×5.4×1.2mm Max.
- Product weight: 0.164g (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

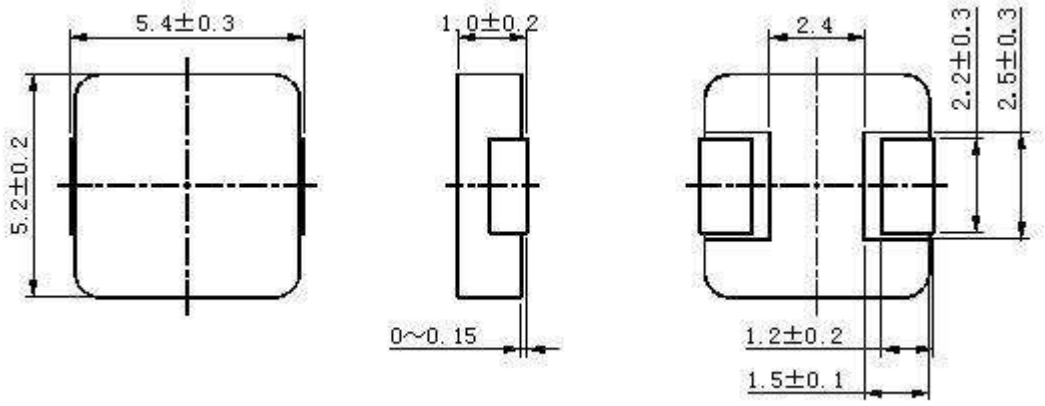
Packaging

- Carrier tape and reel packaging.
- 2000pcs 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]



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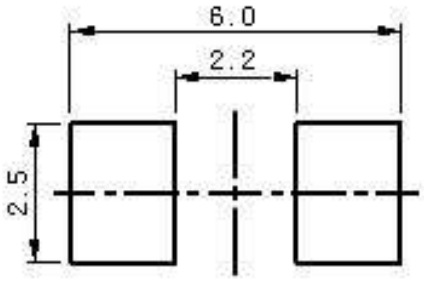
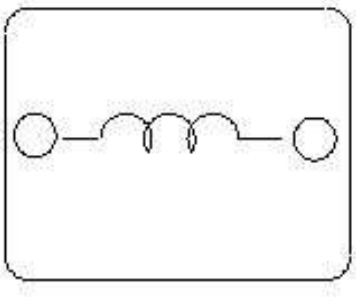
Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

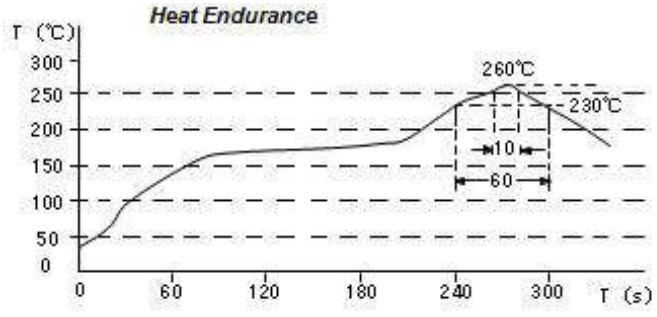
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ max(typ) (mΩ)	Saturation Current at 20℃(A) ※2	Temperature Rise Current (A) ※3
0512CDMCCDS-R10MC	0.10 ± 20%	5.40 (4.50)	17.00	14.00
0512CDMCCDS-R22MC	0.22 ± 20%	8.40 (7.00)	14.00	10.60
0512CDMCCDS-R33MC	0.33 ± 20%	10.80 (9.00)	13.00	10.70
0512CDMCCDS-R47MC	0.47 ± 20%	13.20 (11.00)	11.00	8.80
0512CDMCCDS-R56MC	0.56 ± 20%	18.60 (15.50)	8.00	7.20
0512CDMCCDS-R68MC	0.68 ± 20%	20.40 (17.00)	7.80	7.00
0512CDMCCDS-1R0MC	1.00 ± 20%	31.80 (26.50)	6.50	5.70
0512CDMCCDS-1R5MC	1.50 ± 20%	42.00 (35.00)	6.00	5.30
0512CDMCCDS-2R2MC	2.20 ± 20%	72.60 (60.50)	4.80	3.60
0512CDMCCDS-3R3MC	3.30 ± 20%	107.40 (89.50)	3.80	2.90
0512CDMCCDS-4R7MC	4.70 ± 20%	166.20 (138.50)	3.20	2.30

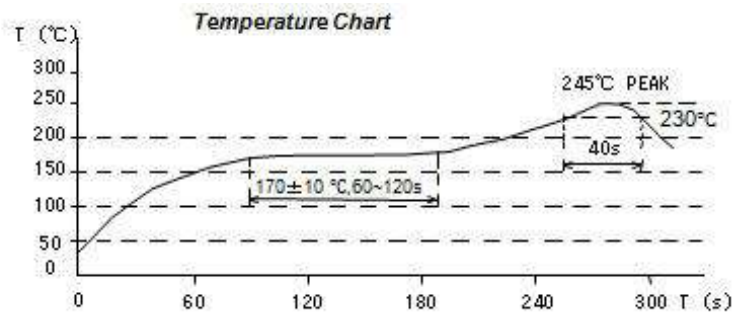
※1 Measuring frequency Inductance at 100kHz 1V.

※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 △T=40℃ (Ta＝25℃).(Test board condition: FR4, Copper=70μm, four-layer PWB t=1.6mm)

Solder Reflow Condition





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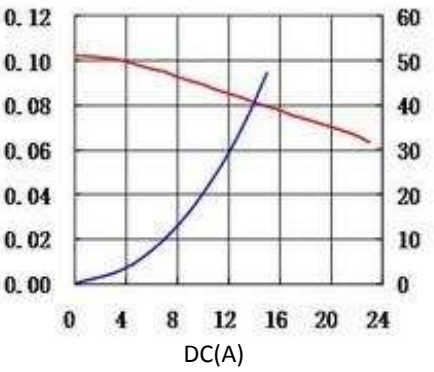
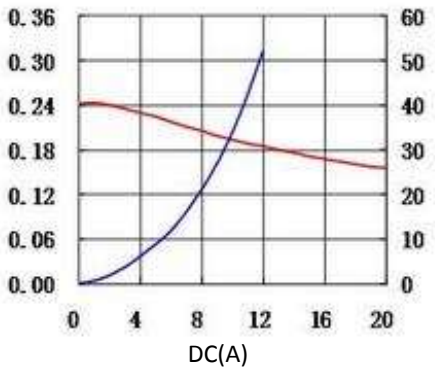
Saturation Current & Temperature Rise Graph

L (20°C) ΔT

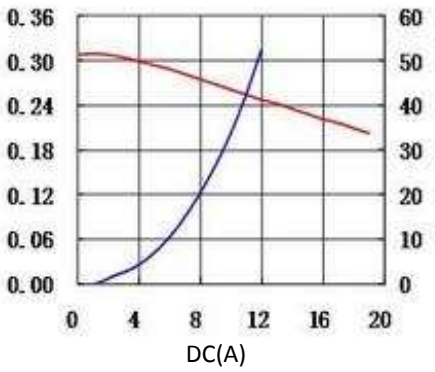
1. 0512CDMCCDS-R10MC



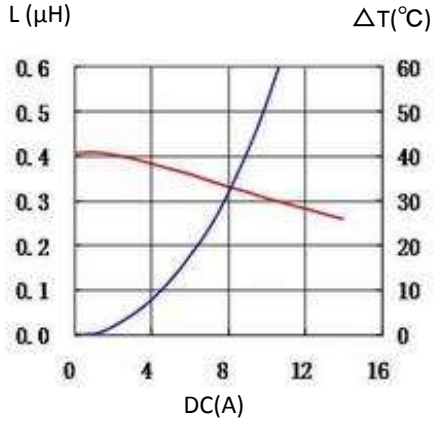
2. 0512CDMCCDS-R22MC



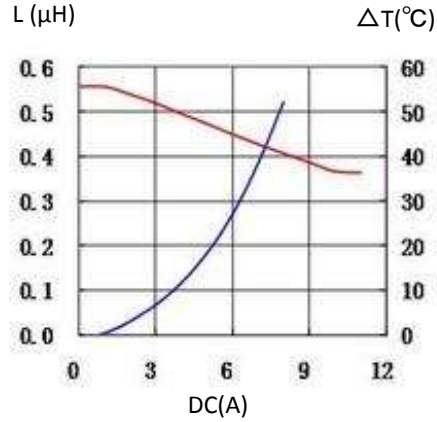
3. 0512CDMCCDS-R33MC



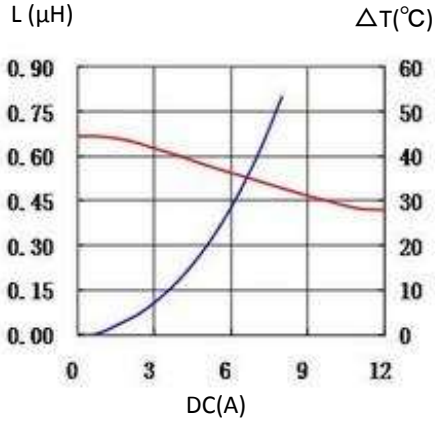
4. 0512CDMCCDS-R47MC



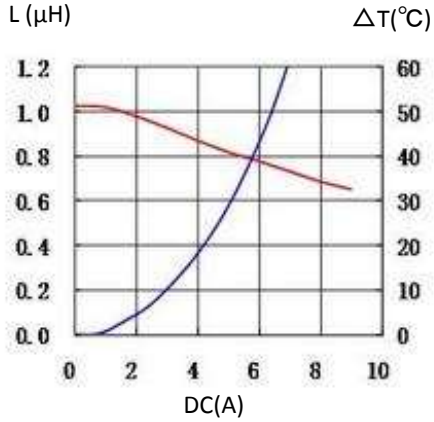
5. 0512CDMCCDS-R56MC



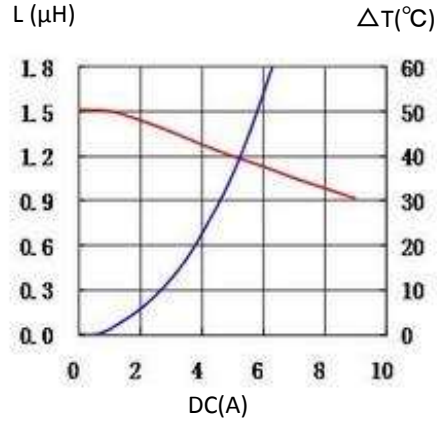
6. 0512CDMCCDS-R68MC



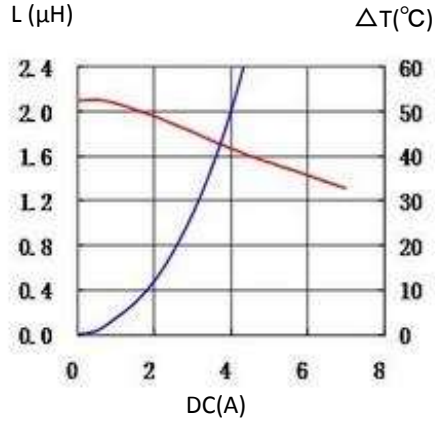
7. 0512CDMCCDS-1R0MC



8. 0512CDMCCDS-1R5MC



9. 0512CDMCCDS-2R2MC



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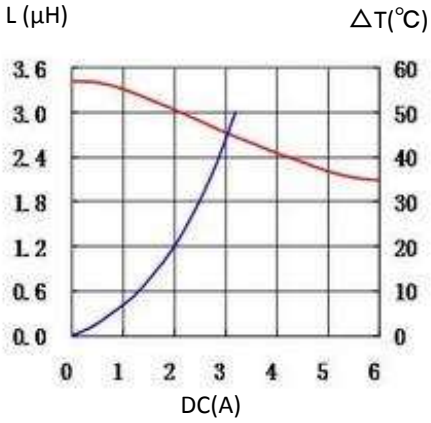
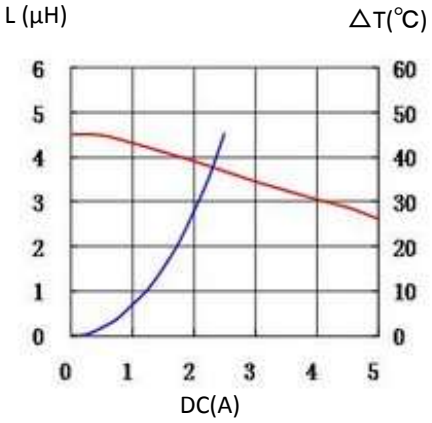
10. 0512CDMCCDS-3R3MC



11. 0512CDMCCDS-4R7MC



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