



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor

0512CDMCC/DS



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

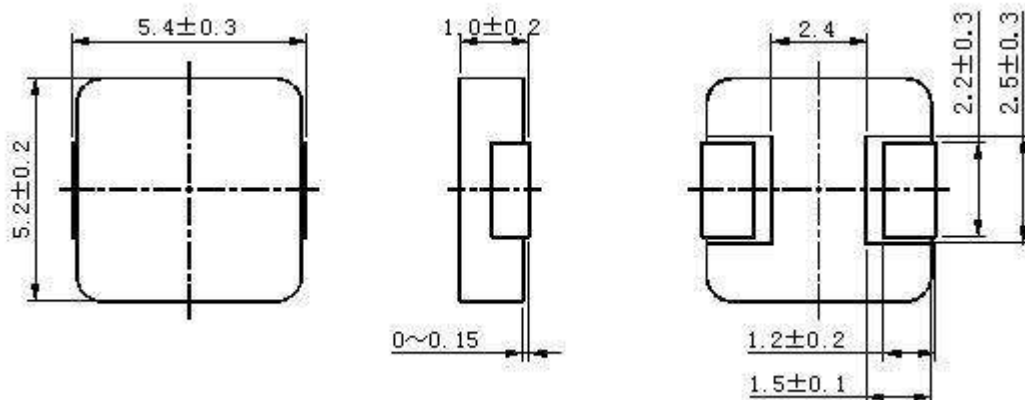
Packaging

- 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]



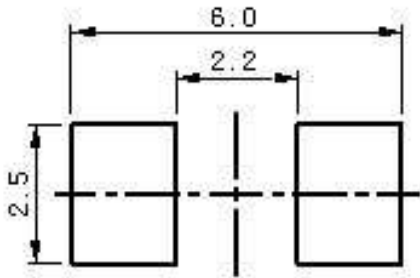
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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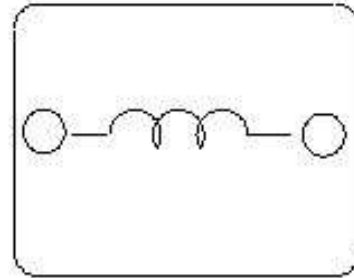
0512CDMCC/DS



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

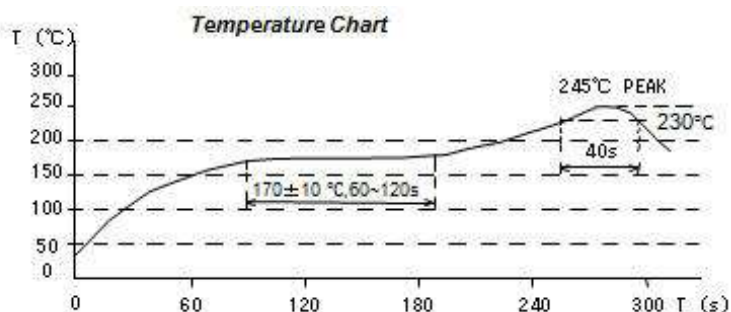
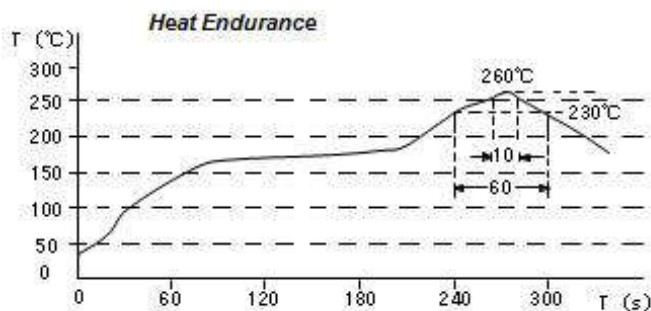
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C max(typ) (m Ω)	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
0512CDMCCDS-R10MC	0.10 \pm 20%	5.40 (4.50)	17.00	14.00
0512CDMCCDS-R22MC	0.22 \pm 20%	8.40 (7.00)	14.00	10.60
0512CDMCCDS-R33MC	0.33 \pm 20%	10.80 (9.00)	13.00	10.70
0512CDMCCDS-R47MC	0.47 \pm 20%	13.20 (11.00)	11.00	8.80
0512CDMCCDS-R56MC	0.56 \pm 20%	18.60 (15.50)	8.00	7.20
0512CDMCCDS-R68MC	0.68 \pm 20%	20.40 (17.00)	7.80	7.00
0512CDMCCDS-1R0MC	1.00 \pm 20%	31.80 (26.50)	6.50	5.70
0512CDMCCDS-1R5MC	1.50 \pm 20%	42.00 (35.00)	6.00	5.30
0512CDMCCDS-2R2MC	2.20 \pm 20%	72.60 (60.50)	4.80	3.60
0512CDMCCDS-3R3MC	3.30 \pm 20%	107.40 (89.50)	3.80	2.90
0512CDMCCDS-4R7MC	4.70 \pm 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 $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$). (Test board condition: FR4, Copper=70 μ m, four-layer PWB t=1.6mm)

Solder Reflow Condition



SMD Power Inductor

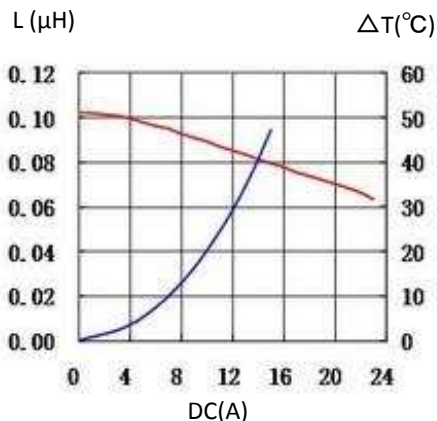
0512CDMCC/DS



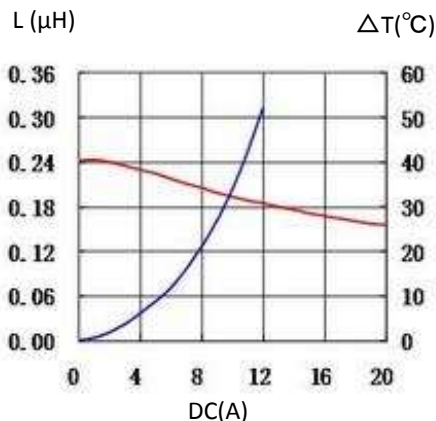
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

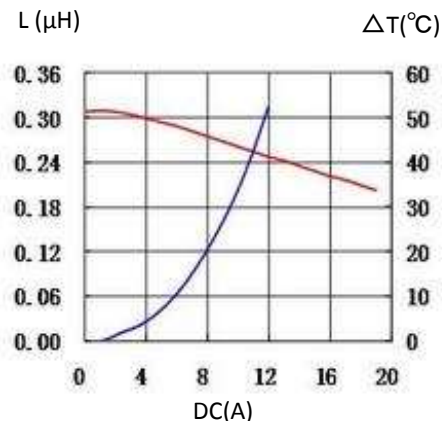
1. 0512CDMCCDS-R10MC



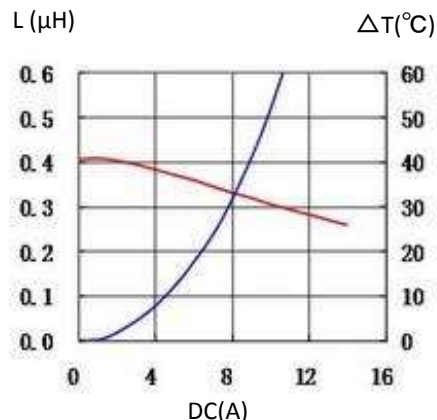
2. 0512CDMCCDS-R22MC



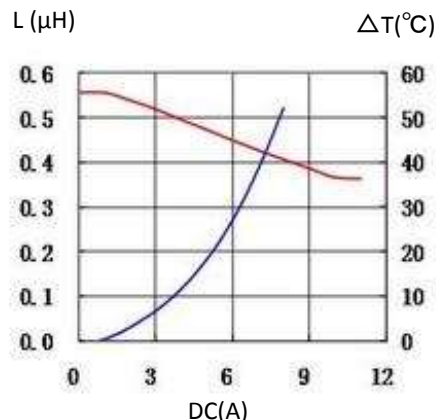
3. 0512CDMCCDS-R33MC



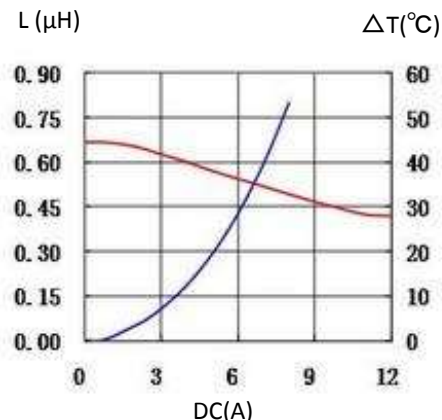
4. 0512CDMCCDS-R47MC



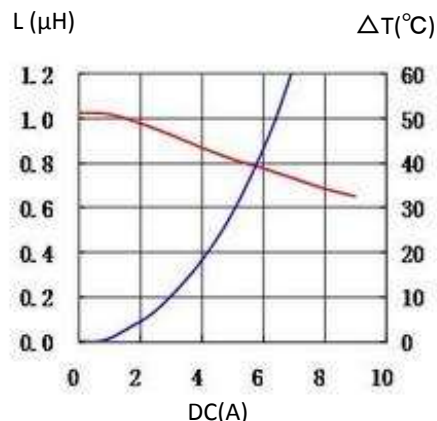
5. 0512CDMCCDS-R56MC



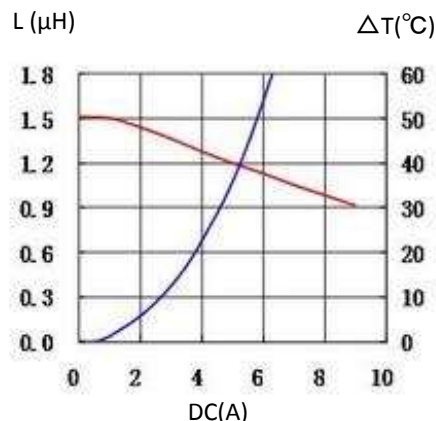
6. 0512CDMCCDS-R68MC



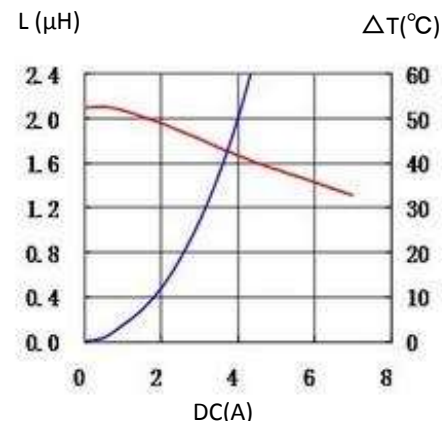
7. 0512CDMCCDS-1R0MC



8. 0512CDMCCDS-1R5MC



9. 0512CDMCCDS-2R2MC



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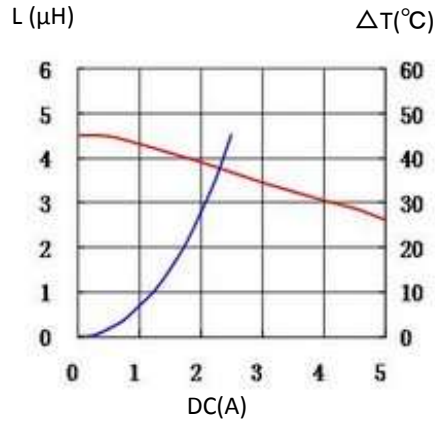
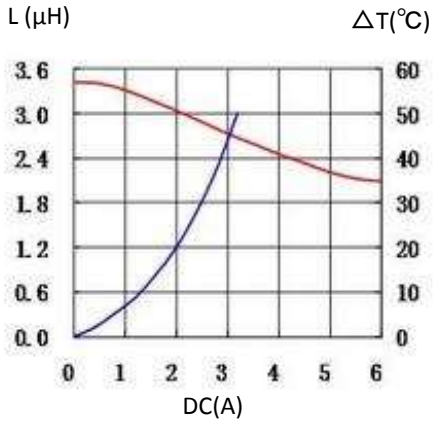
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0512CDMCC/DS



10. 0512CDMCCDS-3R3MC

11. 0512CDMCCDS-4R7MC



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