



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

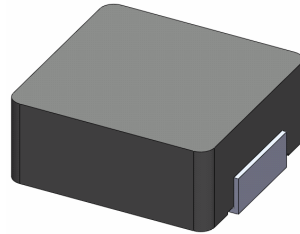
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor 0420CDMCC/DS



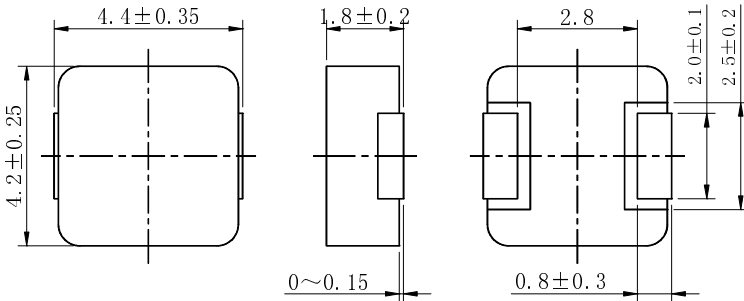
Halogen Free



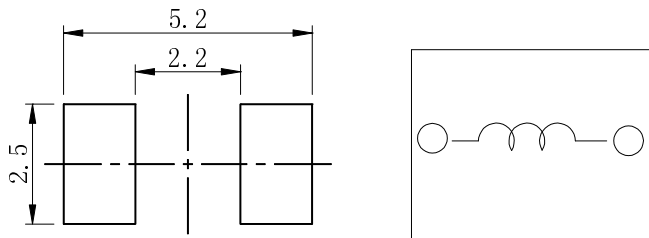
Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: 4.75 × 4.45 × 2.0mm Max.
- Product weight: 0.18g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -55°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -55°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

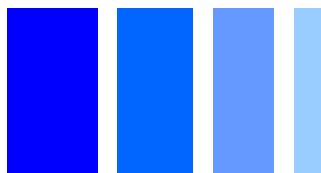
- Carrier tape and reel packaging.
- 3000pcs/Reel.

Applications

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

SMD Power Inductor

0420CDMCC/DS



Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H) ※1	D.C.R (m Ω) Max.(Typ.) at 25°C	Saturation Current (A) Max.(Typ.) (at 25°C) ※2	Temperature rise current (A) (Typ.) ※3
0420CDMCCDS-R10MC	R10	0.10 \pm 20%	4.0(3.5)	19(22)	17.0
0420CDMCCDS-R22MC	R22	0.22 \pm 20%	6.6(6.0)	15(18)	12.0
0420CDMCCDS-R33MC	R33	0.33 \pm 20%	10.5(9.0)	10(12)	10.5
0420CDMCCDS-R47MC	R47	0.47 \pm 20%	14(12.5)	9.5(11)	9.0
0420CDMCCDS-R56MC	R56	0.56 \pm 20%	16(14)	10(12)	8.1
0420CDMCCDS-R68MC	R68	0.68 \pm 20%	18(16)	8.2(9.6)	8.0
0420CDMCCDS-1R0MC	1R0	1.0 \pm 20%	27(24)	7.0(8.0)	6.5
0420CDMCCDS-1R2MC	1R2	1.2 \pm 20%	27(24)	7.0(8.0)	6.5
0420CDMCCDS-1R5MC	1R5	1.5 \pm 20%	46(38)	5.7(6.7)	4.9
0420CDMCCDS-2R2MC	2R2	2.2 \pm 20%	58(52)	5.4(6.3)	4.3
0420CDMCCDS-3R3MC	3R3	3.3 \pm 20%	87(74)	4.0(4.7)	3.5
0420CDMCCDS-4R7MC	4R7	4.7 \pm 20%	105(92)	2.5(3.0)	2.7
0420CDMCCDS-6R8MC	6R8	6.8 \pm 20%	175(160)	2.3(2.7)	2.1
0420CDMCCDS-100MC	100	10 \pm 20%	282(256)	2.1(2.5)	1.5
0420CDMCCDS-150MC	150	15 \pm 20%	352(320)	1.6(1.9)	1.4
0420CDMCCDS-220MC	220	22 \pm 20%	363(330)	1.4(1.7)	1.2

※1 Measuring frequency Inductance at 100kHz ,1.0V

※2 Saturation current: The value of DC current when the inductance is over 70% of its initial value. (at 25°C)

※3 Temperature rise current: The actual value of DC current when temperature of coil rise is

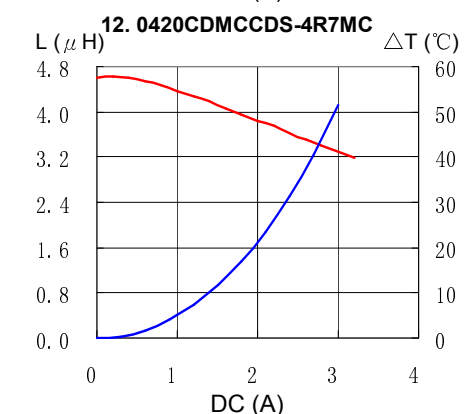
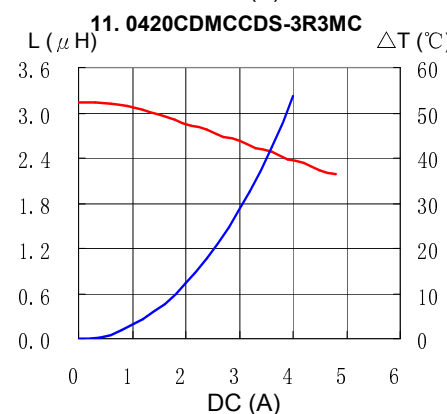
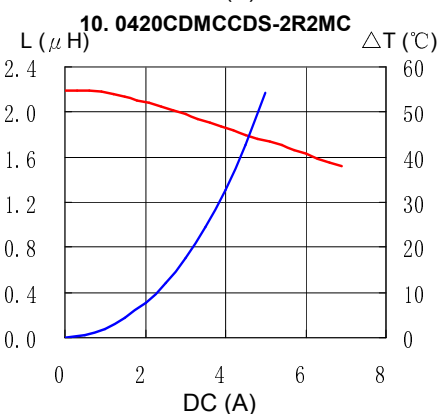
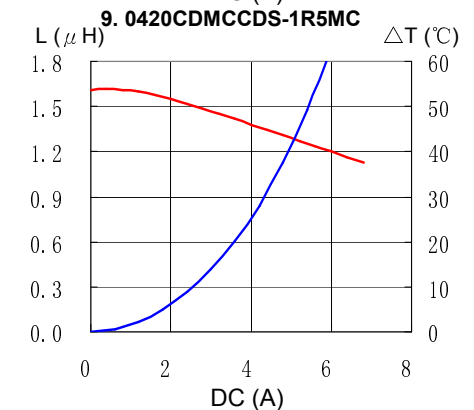
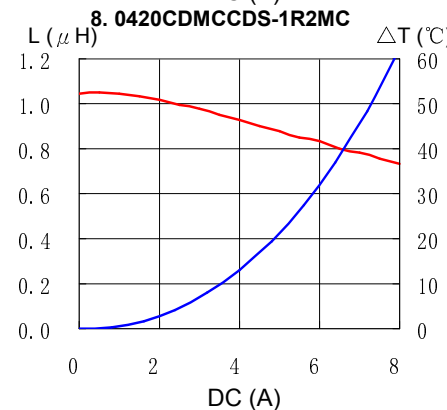
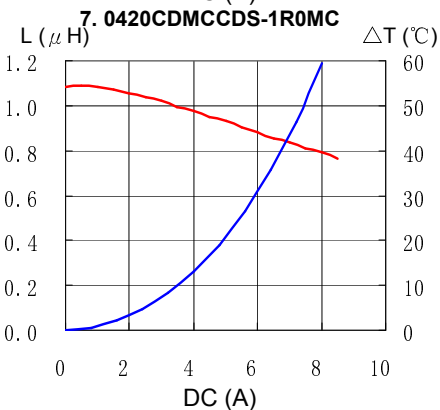
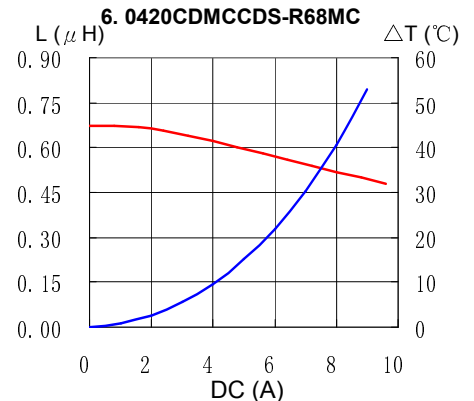
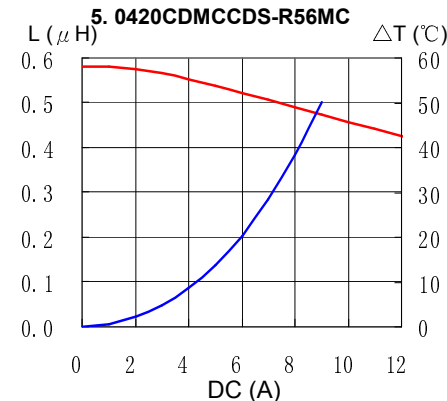
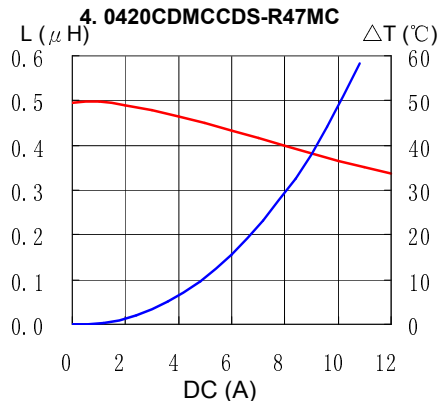
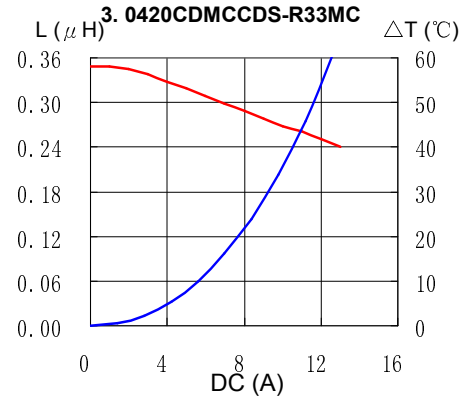
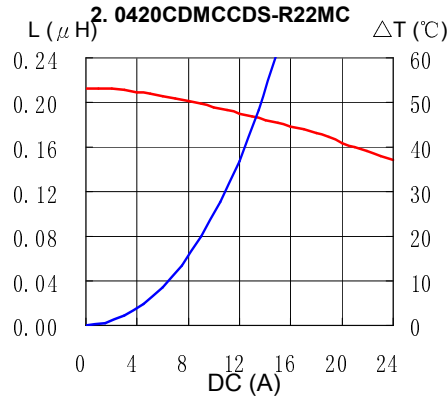
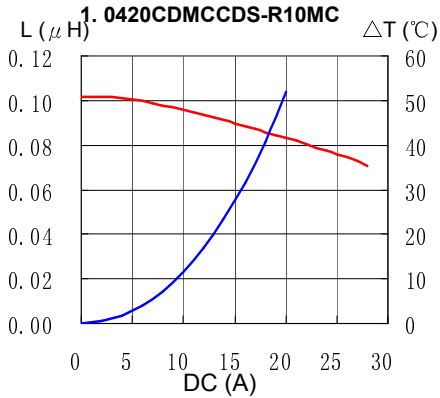
Δ T=40°C(Ta=25°C) Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

SMD Power Inductor 0420CDMCC/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

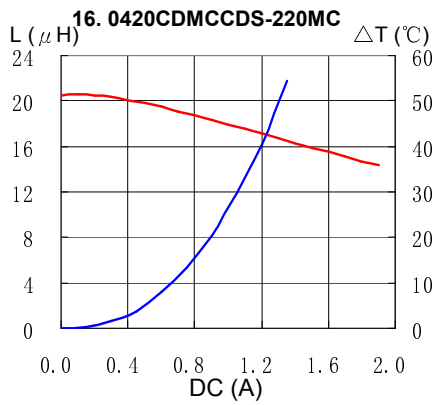
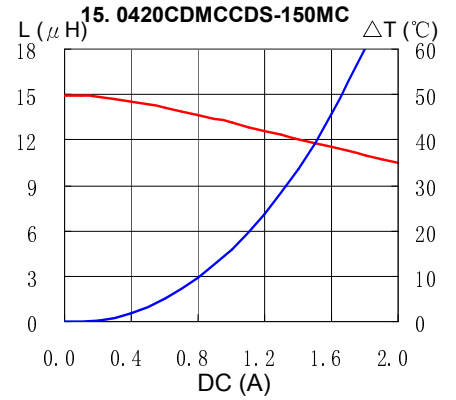
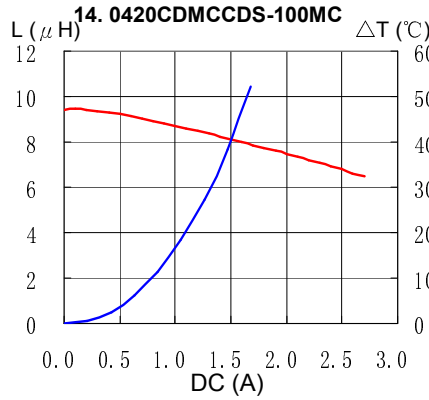
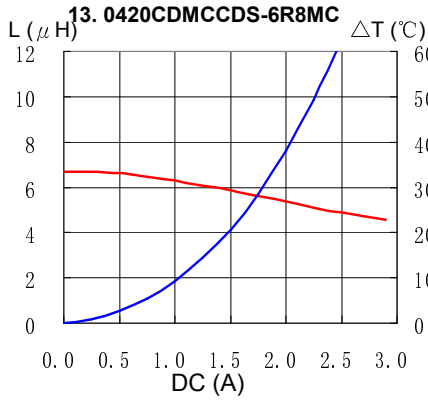


SMD Power Inductor 0420CDMCC/DS



Saturation Current & Temperature Rise Graph

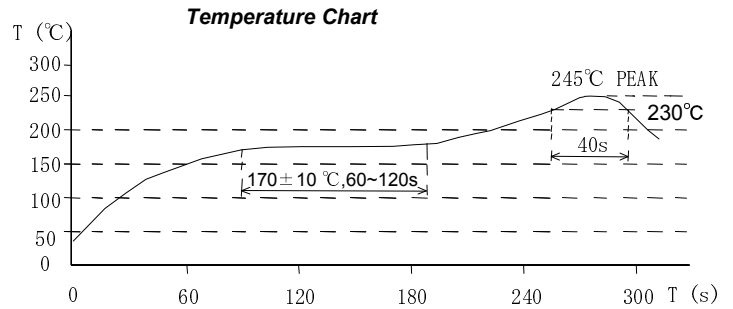
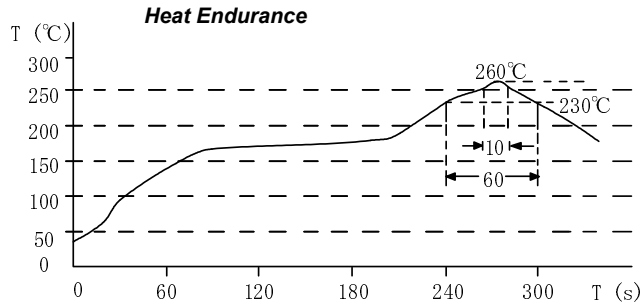
— L (20°C) — ΔT



SMD Power Inductor 0420CDMCC/DS



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Oberzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com