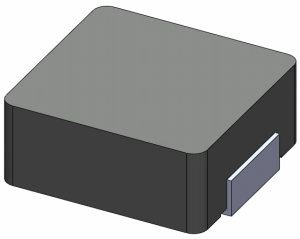
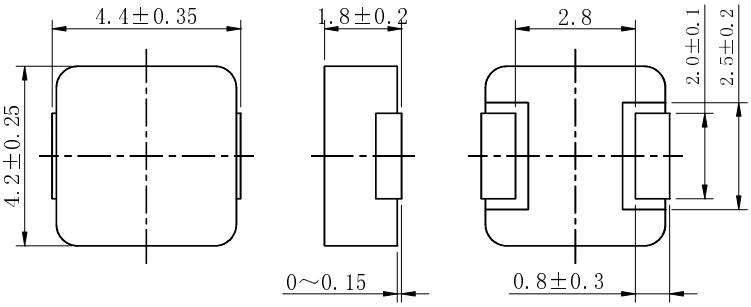
SMD Power Inductor
0420CDMCC/DS

RoHS

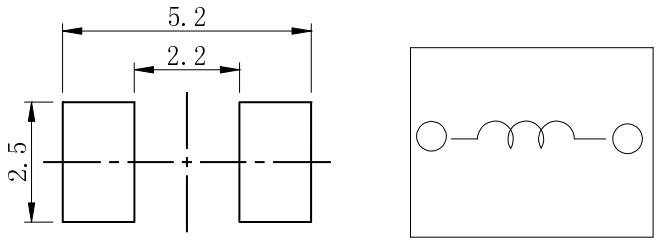
Halogen Free



Dimension - [mm]



Land pattern and Schematics - [mm]



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.

Environmental Data
- Operating temperature range: -55℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -55℃～+125℃
- Solder reflow temperature: 260 ℃ 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.

Revised: 20-Nov-15

Electrical Characteristics

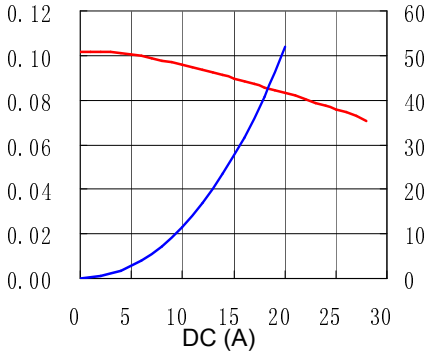
Part No.	Stamp	Inductance [Within] (μH) ※1	D.C.R (mΩ) Max.(Typ.) at 25℃	Saturation Current (A) Max.(Typ.) (at 25℃) ※2	Temperature rise current (A) (Typ.) ※3
0420CDMCCDS-R10MC	R10	0.10±20%	4.0(3.5)	19(22)	17.0
0420CDMCCDS-R22MC	R22	0.22±20%	6.6(6.0)	15(18)	12.0
0420CDMCCDS-R33MC	R33	0.33±20%	10.5(9.0)	10(12)	10.5
0420CDMCCDS-R47MC	R47	0.47±20%	14(12.5)	9.5(11)	9.0
0420CDMCCDS-R56MC	R56	0.56±20%	16(14)	10(12)	8.1
0420CDMCCDS-R68MC	R68	0.68±20%	18(16)	8.2(9.6)	8.0
0420CDMCCDS-1R0MC	1R0	1.0±20%	27(24)	7.0(8.0)	6.5
0420CDMCCDS-1R2MC	1R2	1.2±20%	27(24)	7.0(8.0)	6.5
0420CDMCCDS-1R5MC	1R5	1.5±20%	46(38)	5.7(6.7)	4.9
0420CDMCCDS-2R2MC	2R2	2.2±20%	58(52)	5.4(6.3)	4.3
0420CDMCCDS-3R3MC	3R3	3.3±20%	87(74)	4.0(4.7)	3.5
0420CDMCCDS-4R7MC	4R7	4.7±20%	105(92)	2.5(3.0)	2.7
0420CDMCCDS-6R8MC	6R8	6.8±20%	175(160)	2.3(2.7)	2.1
0420CDMCCDS-100MC	100	10±20%	282(256)	2.1(2.5)	1.5
0420CDMCCDS-150MC	150	15±20%	352(320)	1.6(1.9)	1.4
0420CDMCCDS-220MC	220	22±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℃)
※3 Temperature rise current: The actual value of DC current when temperature of coil rise is △T=40℃(Ta=25℃) Board conditions: FR4, Copper=70μm,four-layer PWB, t=1.6mm.

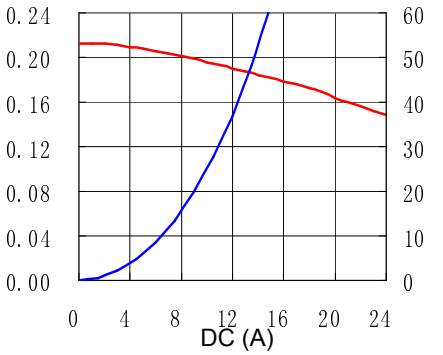
Saturation Current & Temperature Rise Graph

L (20℃) △T

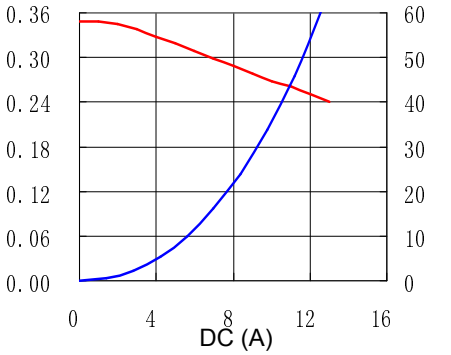
1. 0420CDMCCDS-R10MC



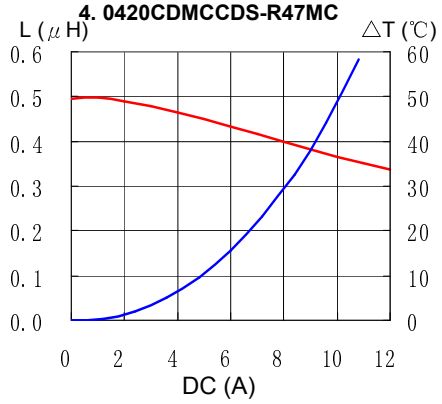
2. 0420CDMCCDS-R22MC



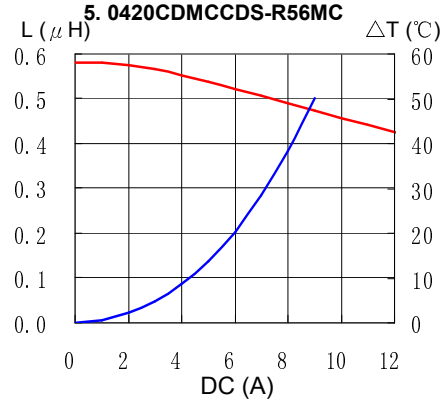
3. 0420CDMCCDS-R33MC



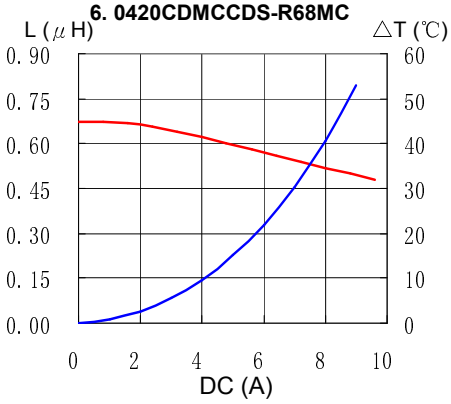
4. 0420CDMCCDS-R47MC



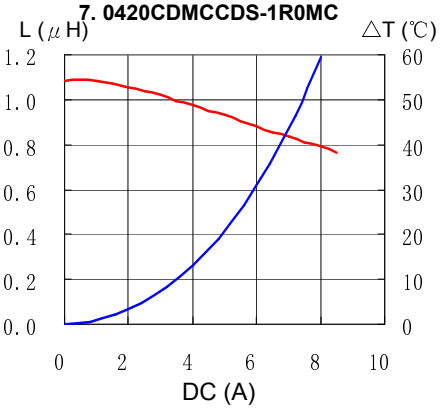
5. 0420CDMCCDS-R56MC



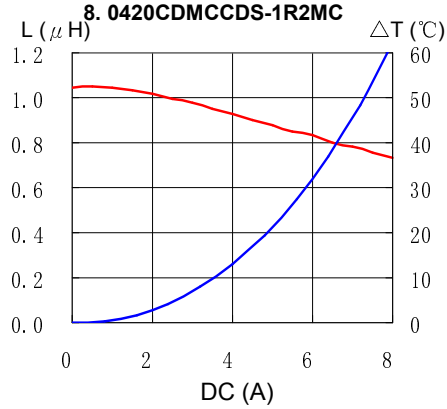
6. 0420CDMCCDS-R68MC



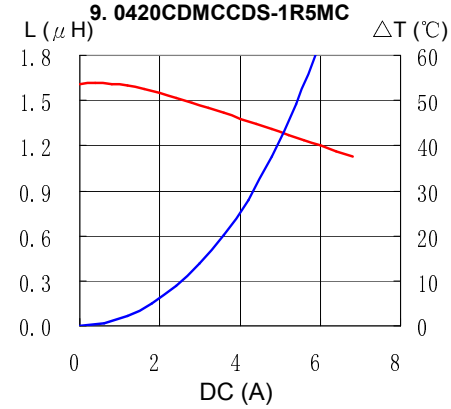
7. 0420CDMCCDS-1R0MC



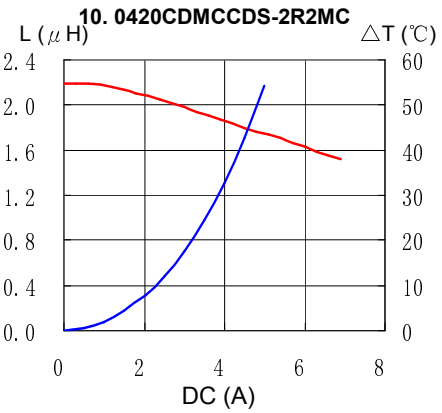
8. 0420CDMCCDS-1R2MC



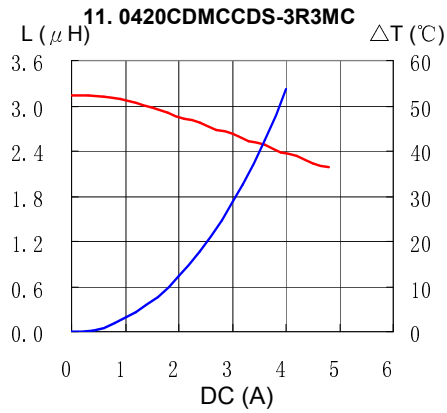
9. 0420CDMCCDS-1R5MC



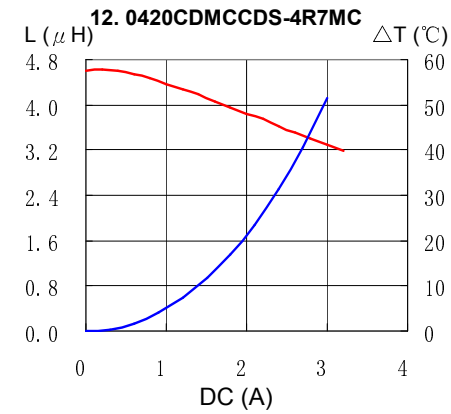
10. 0420CDMCCDS-2R2MC



11. 0420CDMCCDS-3R3MC



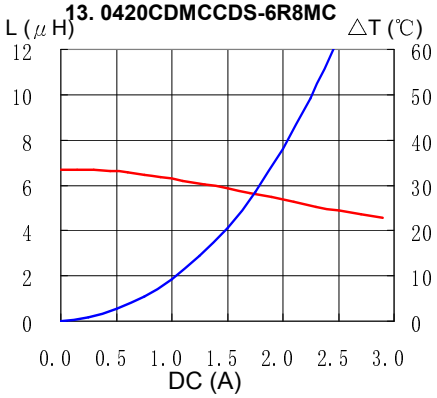
12. 0420CDMCCDS-4R7MC



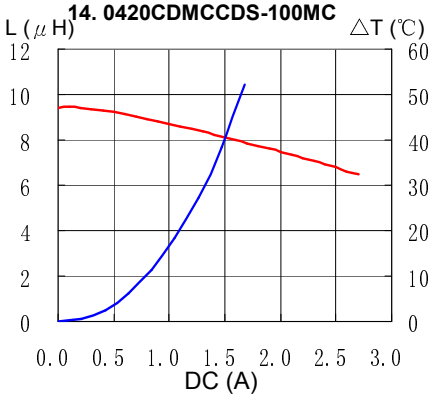
Saturation Current & Temperature Rise Graph

L (20℃) △T

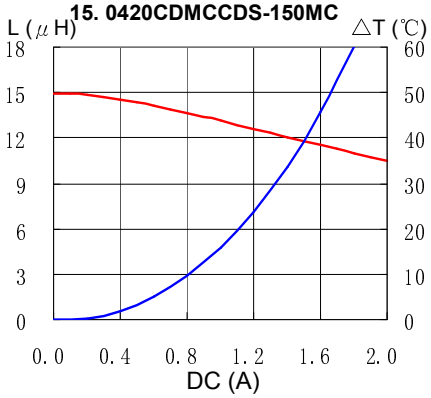
13. 0420CDMCCDS-6R8MC



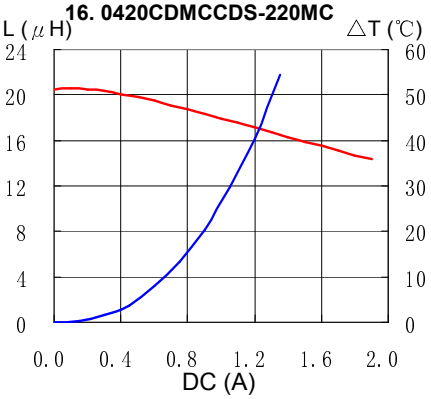
14. 0420CDMCCDS-100MC



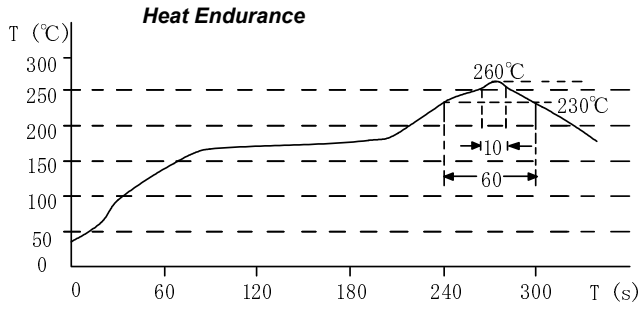
15. 0420CDMCCDS-150MC

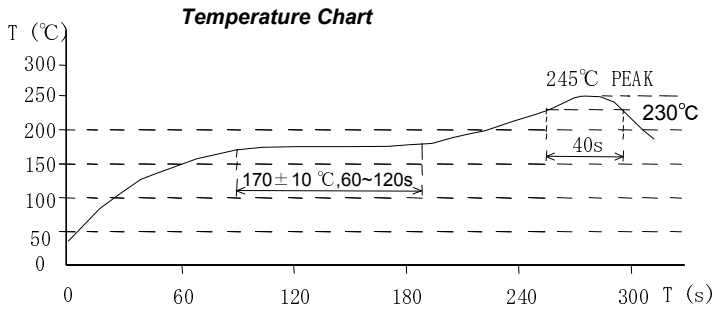


16. 0420CDMCCDS-220MC



Solder Reflow Condition





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