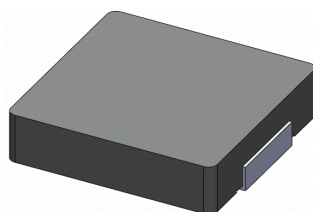


SMD Power Inductor 0618CDMCC/DS



Halogen
Free



Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: 7.3 × 6.8 × 1.8mm Max.
- Product weight: 0.45g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

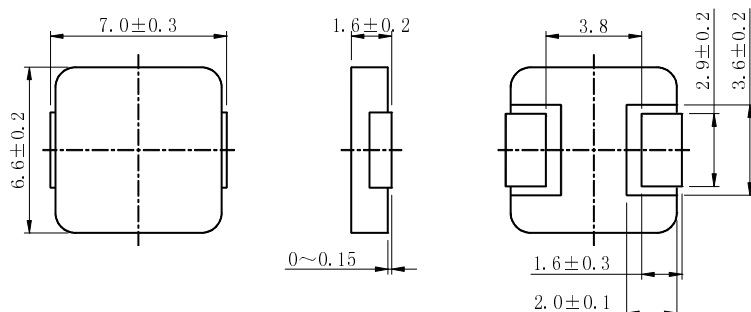
Packaging

- Carrier tape and reel packaging.
- 1500pcs/Reel.

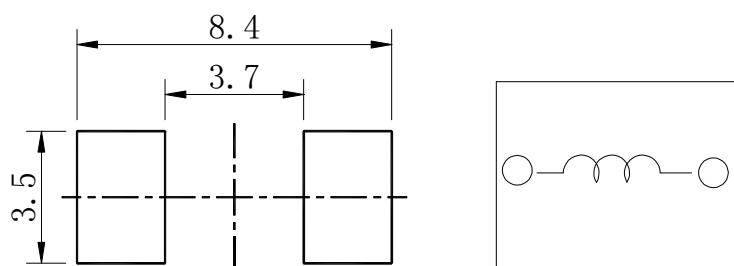
Applications

- 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 converters in distributed power systems.

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor 0618CDMCC/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
0618CDMCCDS-R68MC	R68	0.68 $\pm$ 20%	12.0(10.0)	14.4(17.0)	9.8
0618CDMCCDS-1R0MC	1R0	1.0 $\pm$ 20%	16.0(13.0)	12.1(14.3)	8.3
0618CDMCCDS-1R5MC	1R5	1.5 $\pm$ 20%	24.0(20.0)	10.3(12.0)	7.0
0618CDMCCDS-2R2MC	2R2	2.2 $\pm$ 20%	33.6(28.0)	9.2(10.8)	6.0
0618CDMCCDS-3R3MC	3R3	3.3 $\pm$ 20%	50.0(43.0)	6.8(8.0)	4.7
0618CDMCCDS-4R7MC	4R7	4.7 $\pm$ 20%	62.0(56.0)	5.3(6.3)	4.0
0618CDMCCDS-6R8MC	6R8	6.8 $\pm$ 20%	110.0(101.0)	4.3(5.0)	3.0
0618CDMCCDS-8R2MC	8R2	8.2 $\pm$ 20%	142.0(123.0)	4.0(4.7)	2.6
0618CDMCCDS-100MC	100	10.0 $\pm$ 20%	173.0(150.0)	3.4(4.0)	2.3

※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

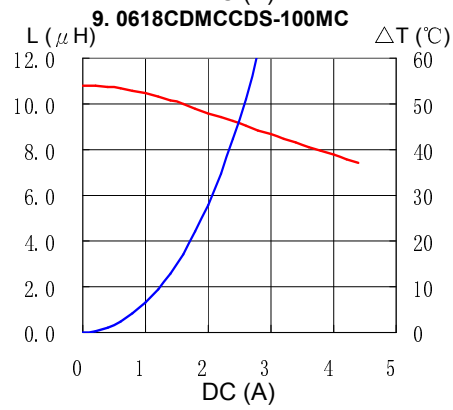
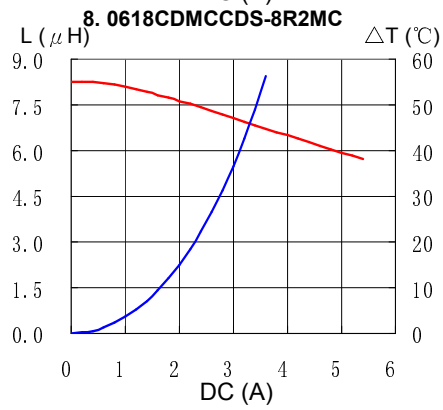
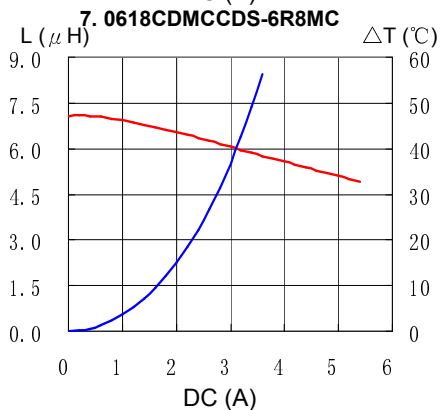
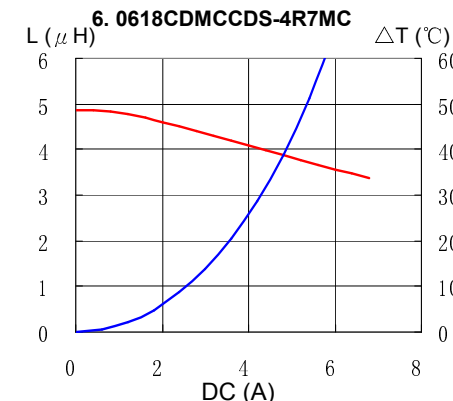
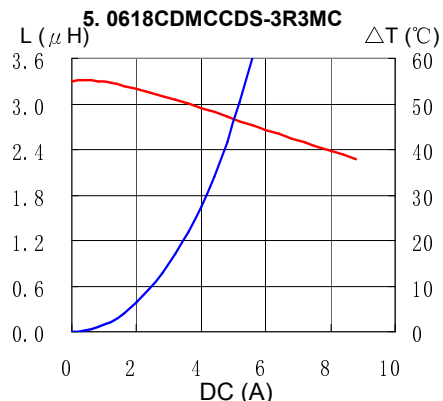
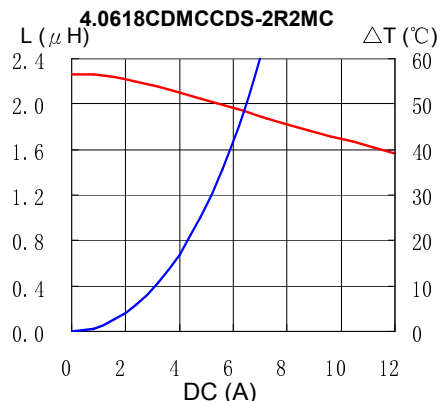
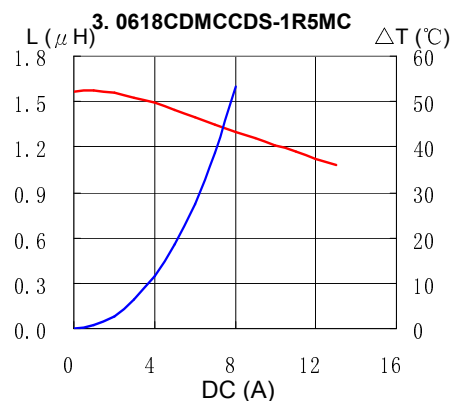
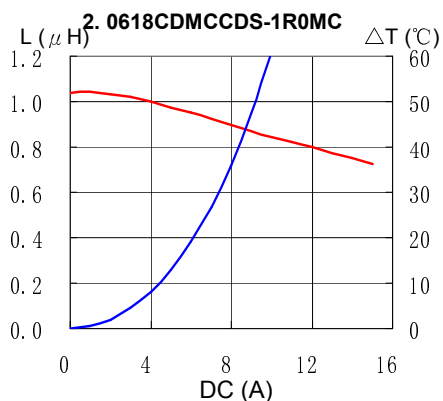
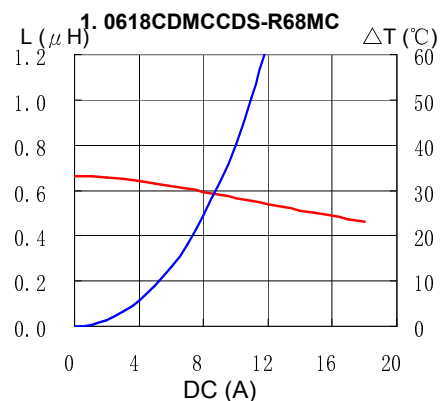
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

SMD Power Inductor 0618CDMCC/DS



Saturation Current & Temperature Rise Graph

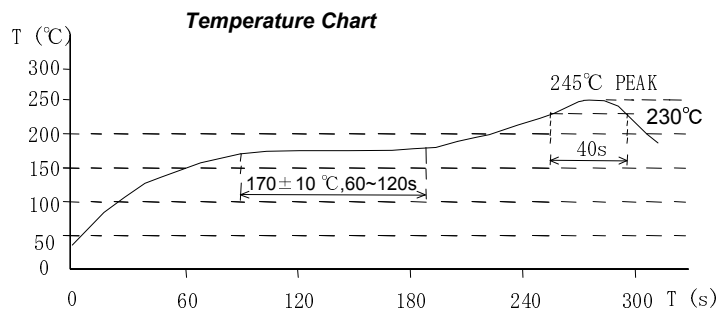
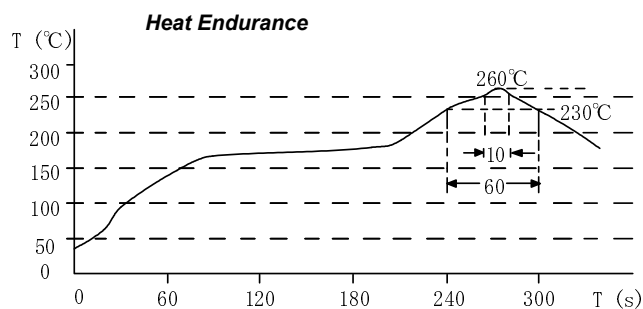
— L (20°C) — ΔT



SMD Power Inductor 0618CDMCC/DS



Solder Reflow Condition



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