

SMD Power Inductor

0518CDMCC/DS

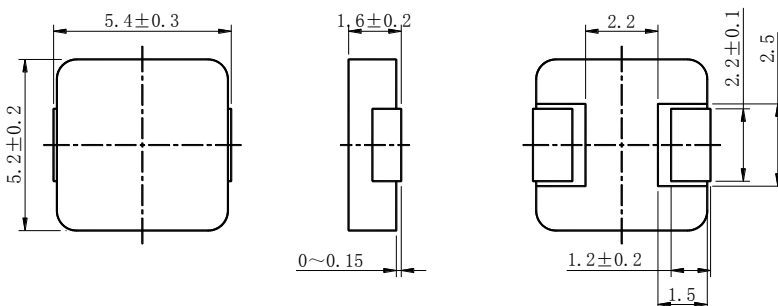


RoHS

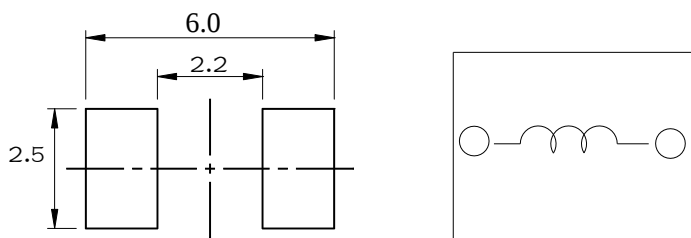
Halogen
Free



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: 5.7 × 5.4 × 1.8 mm Max.
- Product weight: 0.26g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

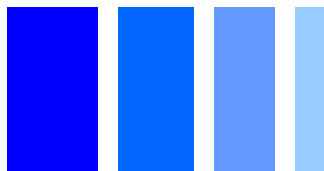
- Operating temperature range: -55°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -55°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.
- 2000pcs/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.



Electrical Characteristics

Part No.	Stamp	Inductance [Within](μ H) ※1	D.C.R (m Ω) at 25℃ Max.(typ.)	Saturation Current (A)※2 Max.(Typ.)	Temperature rise current (A)※3 (Typ.)
0518CDMCCDS-R33MC	R33	$0.33 \pm 20\%$	6.5(5.5)	16.0(19.0)	14.5
0518CDMCCDS-R47MC	R47	$0.47 \pm 20\%$	9.0(7.7)	12.8(15.0)	10.5
0518CDMCCDS-R56MC	R56	$0.56 \pm 20\%$	10.0(8.0)	12.5(14.7)	10.0
0518CDMCCDS-1R0MC	1R0	$1.0 \pm 20\%$	17(15)	11.1(13.1)	7.5
0518CDMCCDS-1R5MC	1R5	$1.5 \pm 20\%$	26(21)	9.0(10.6)	6.6
0518CDMCCDS-2R2MC	2R2	$2.2 \pm 20\%$	35(30)	6.0(7.1)	5.2
0518CDMCCDS-3R3MC	3R3	$3.3 \pm 20\%$	58(52)	5.4(6.3)	4.2
0518CDMCCDS-4R7MC	4R7	$4.7 \pm 20\%$	85(78)	4.4(5.1)	3.2
0518CDMCCDS-5R6MC	5R6	$5.6 \pm 20\%$	95(86)	4.1(4.8)	2.8
0518CDMCCDS-6R8MC	6R8	$6.8 \pm 20\%$	120(107)	3.6(4.3)	2.4
0518CDMCCDS-100MC	100	$10 \pm 20\%$	155(140)	3.0(3.5)	2.3
0518CDMCCDS-150MC	150	$15 \pm 20\%$	260(240)	1.7(2.0)	1.8

※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

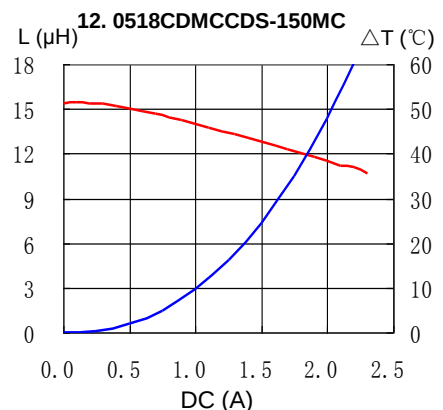
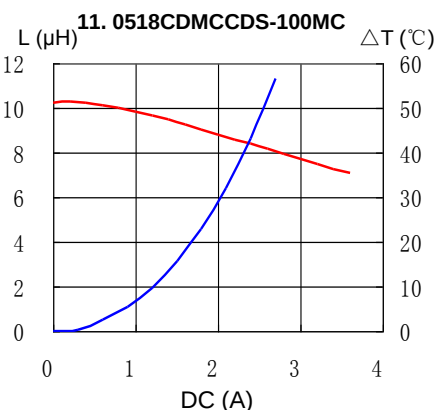
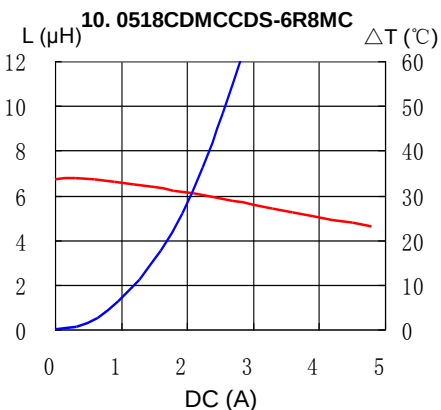
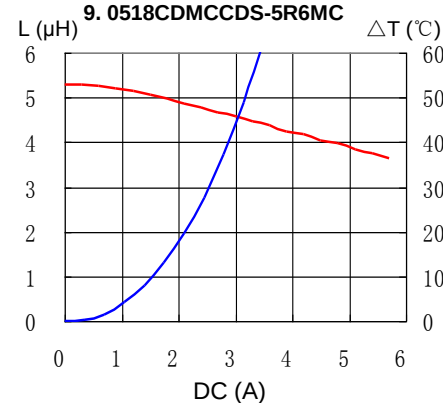
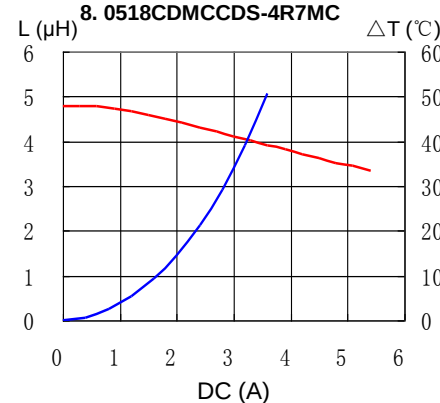
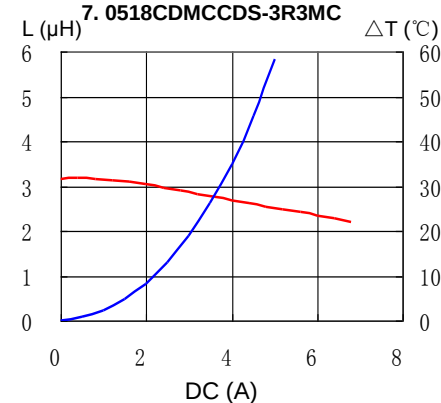
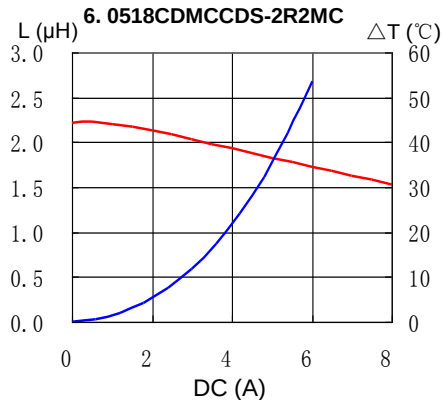
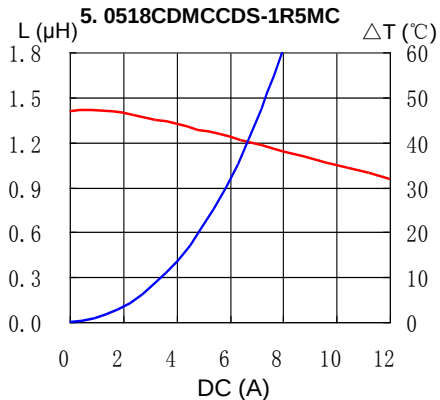
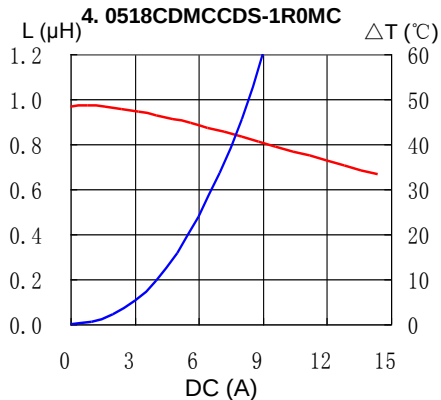
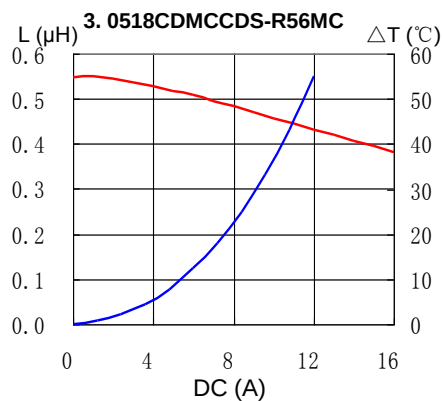
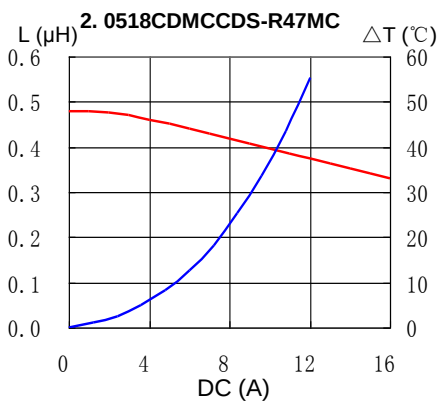
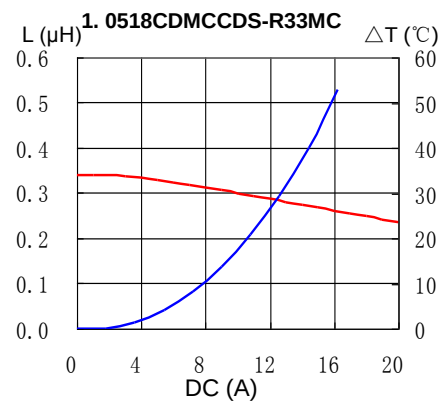
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$). Board conditions: FR4, Copper=70 μ m,four-layer PWB, t=1.6mm.

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

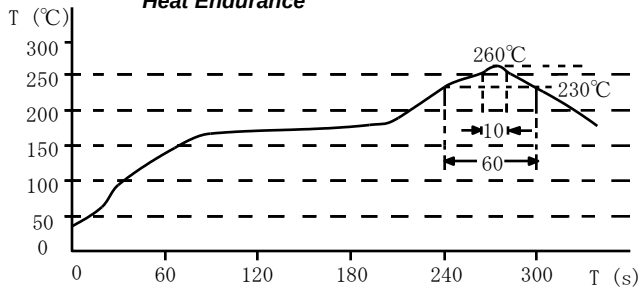


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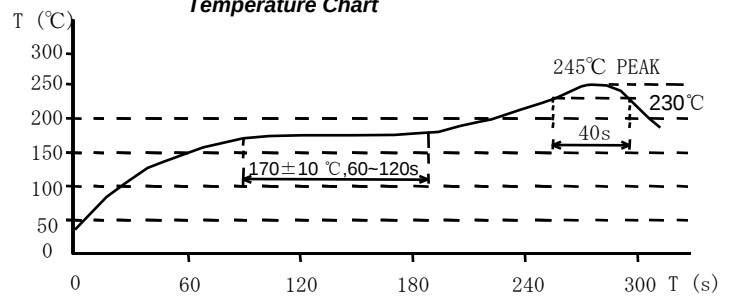


Solder Reflow Condition

Heat Endurance



Temperature Chart



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