

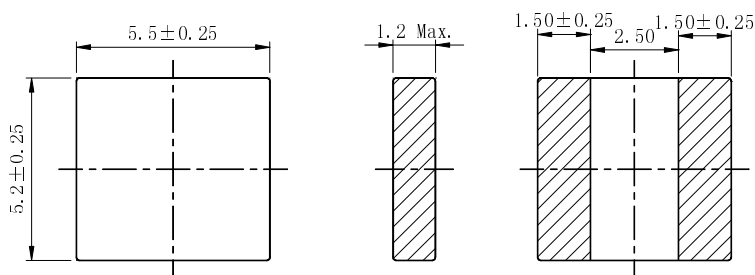
SMD Power Inductor 0512CDMC/DS



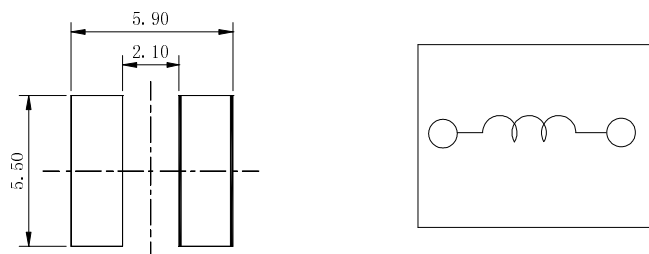
RoHS

Halogen
Free

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Number	Stamp	Inductance (μ H) [within] ※1	D.C.R (m Ω) [within] (at 25°C)	Saturation Current (A) [Typ.] ※2	Temperature rise Current (A) [Typ.] ※3
0512CDMCDS-R33MC	R33	0.33 $\pm$ 20 %	13 $\pm$ 20 %	11.5	6.5
0512CDMCDS-R47MC	R47	0.47 $\pm$ 20 %	18 $\pm$ 20 %	10.9	6.1
0512CDMCDS-1R0MC	1R0	1.0 $\pm$ 20 %	30 $\pm$ 20 %	7.2	4.2
0512CDMCDS-1R5MC	1R5	1.5 $\pm$ 20 %	48 $\pm$ 20 %	6.1	3.4
0512CDMCDS-2R2MC	2R2	2.2 $\pm$ 20 %	70 $\pm$ 20 %	4.8	2.6
0512CDMCDS-3R3MC	3R3	3.3 $\pm$ 20 %	95 $\pm$ 20 %	3.8	2.3
0512CDMCDS-4R7MC	4R7	4.7 $\pm$ 20 %	120 $\pm$ 20 %	3.5	2.1
0512CDMCDS-5R6MC	5R6	5.6 $\pm$ 20 %	145 $\pm$ 20 %	3.1	1.9
0512CDMCDS-6R8MC	6R8	6.8 $\pm$ 20 %	175 $\pm$ 20 %	2.8	1.7
0512CDMCDS-100MC	100	10.0 $\pm$ 20 %	290 $\pm$ 20 %	2.5	1.3
0512CDMCDS-150MC	150	15.0 $\pm$ 20 %	400 $\pm$ 20 %	2.2	1.1

Description

- Magnetically shielded.
- L × W × H: 5.75 × 5.45 × 1.2 mm Max.
- Product weight: 0.17g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 4000pcs per reel

Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

※1. Inductance measuring condition: at 100kHz.

※2 Saturation current: The value of DC current when the inductance is over 80% of the initial value. (at 25°C)

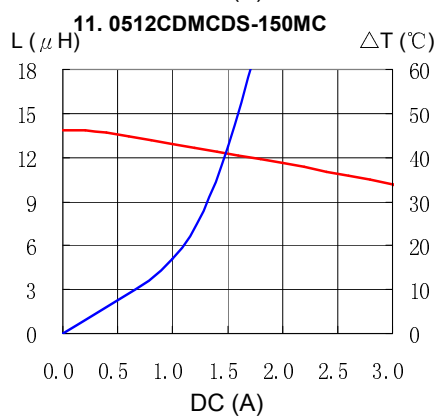
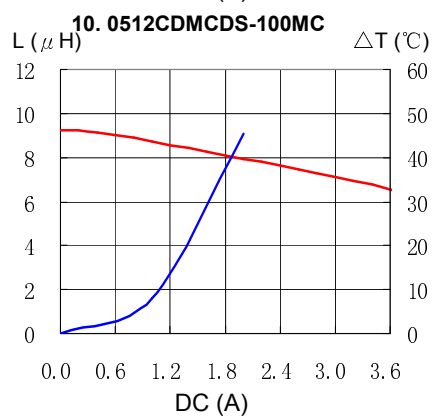
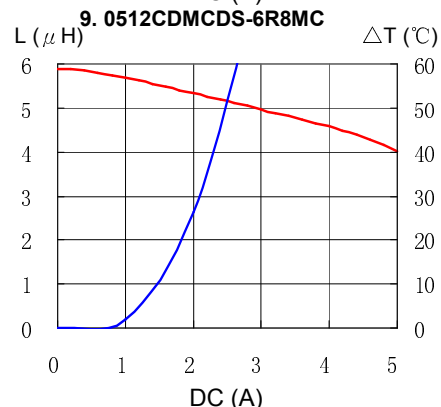
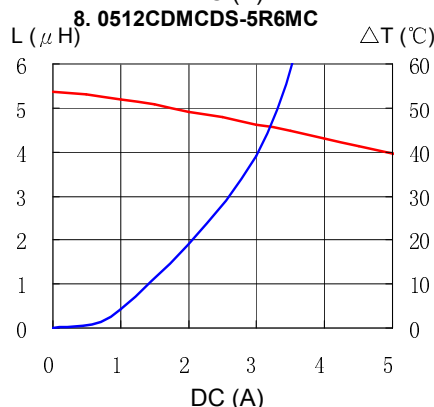
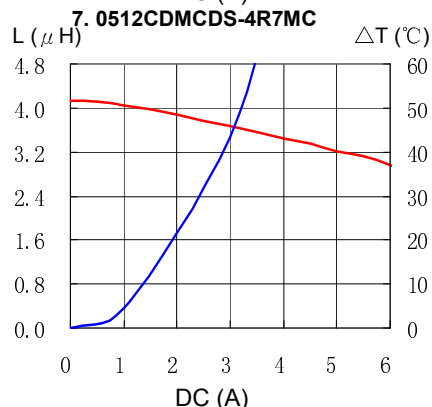
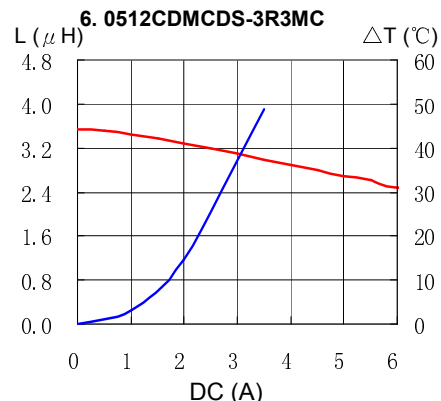
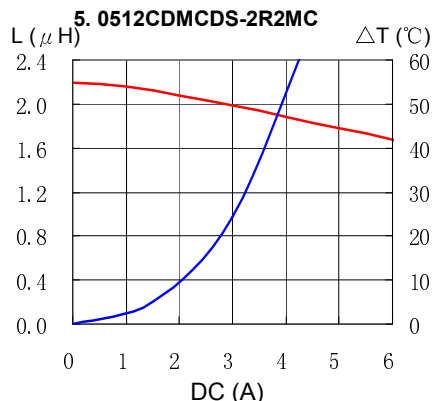
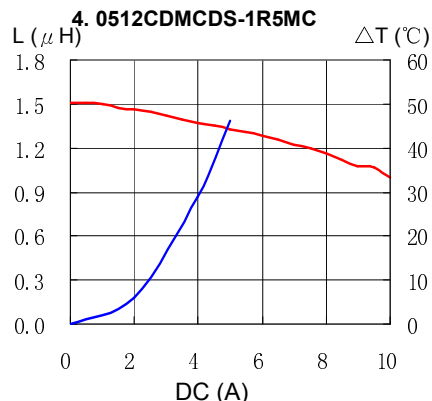
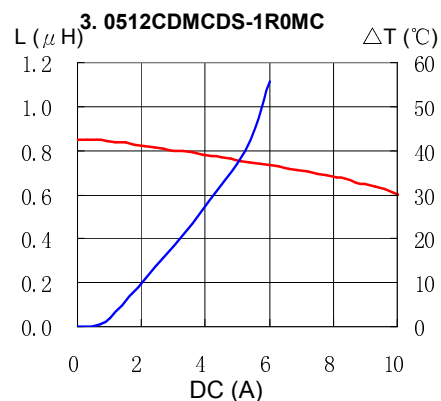
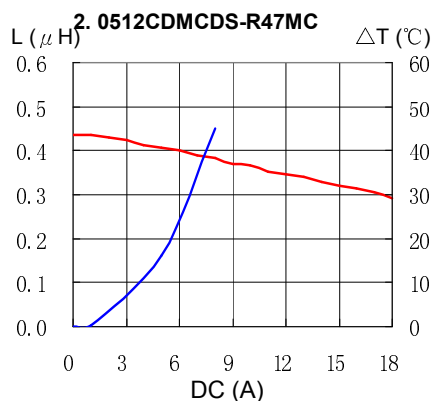
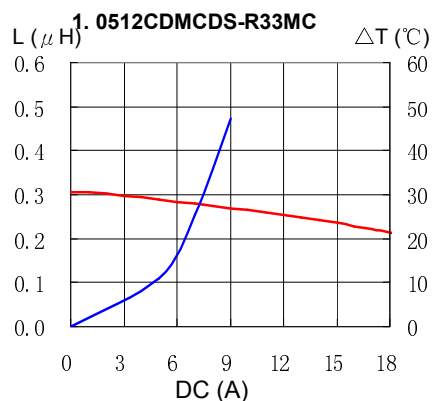
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

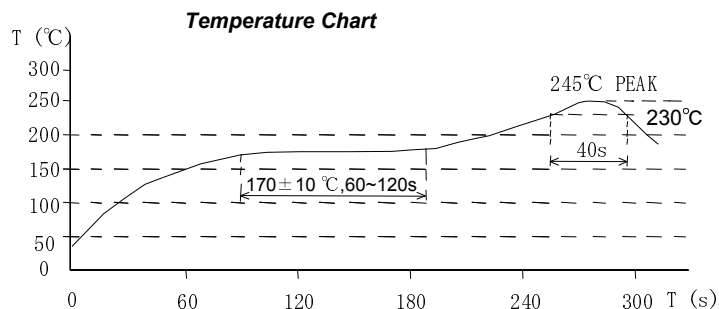
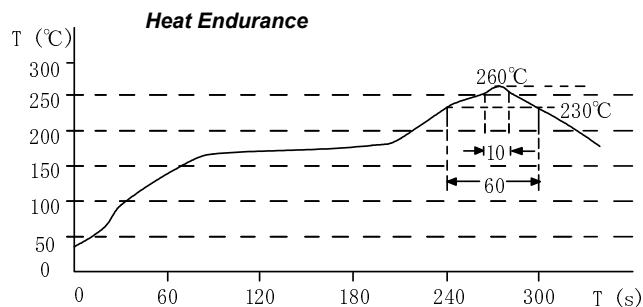
— L (20°C) — ΔT



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Solder Reflow Condition



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

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