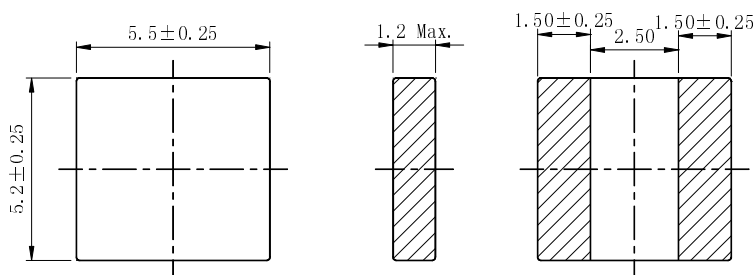


SMD Power Inductor 0512CDMC/DS

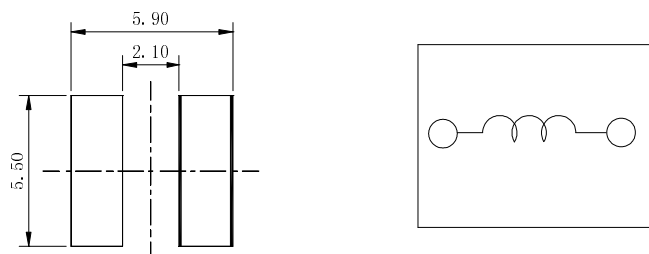


Halogen
Free

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

※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 $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

Description

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

Environmental Data

- Operating temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
(including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
- Solder reflow temperature: 260 $^\circ\text{C}$ peak.

Packaging

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

Applications

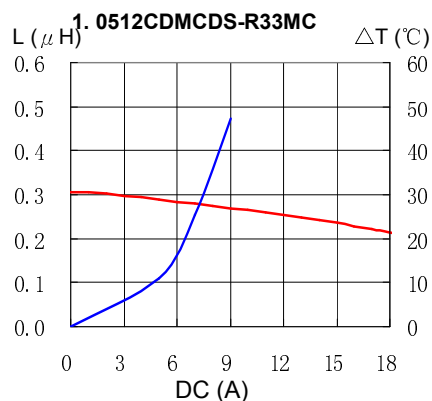
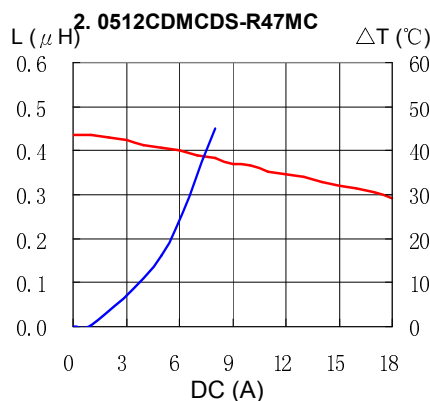
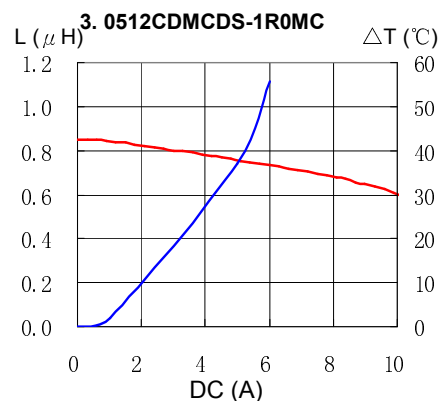
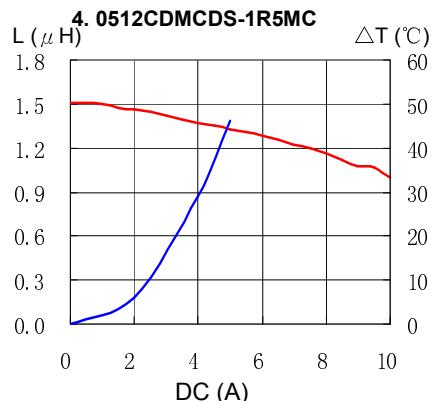
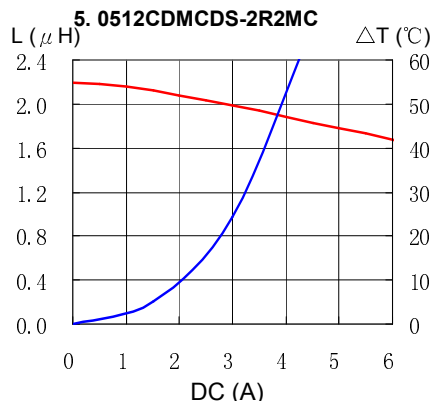
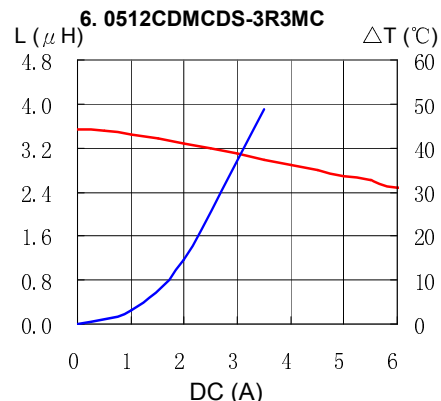
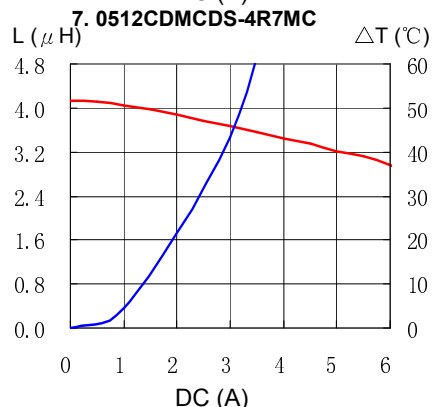
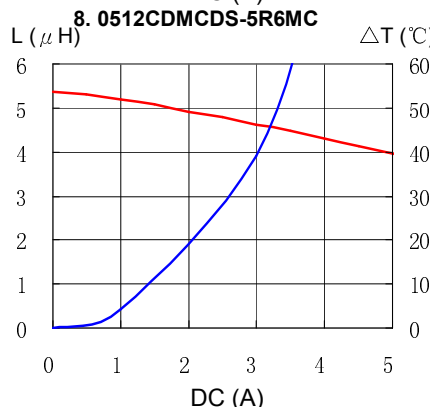
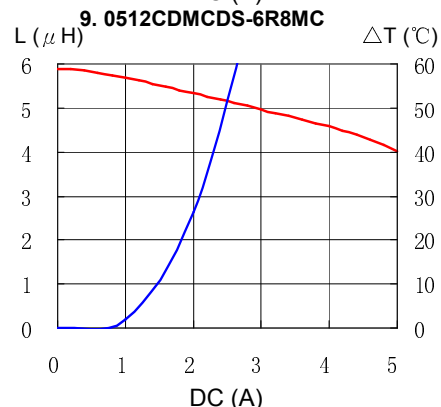
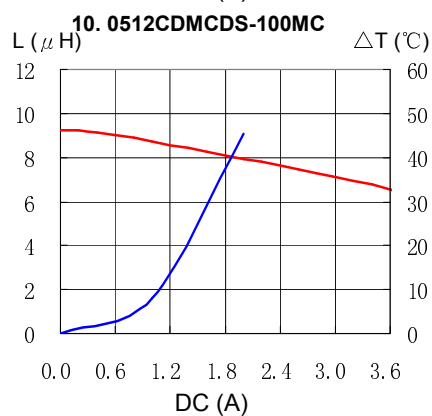
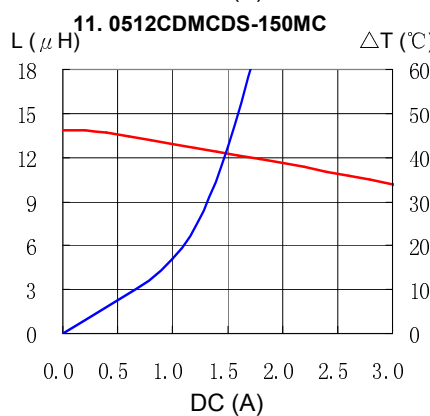
- Ideally used in notebook, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

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Saturation Current & Temperature Rise Graph

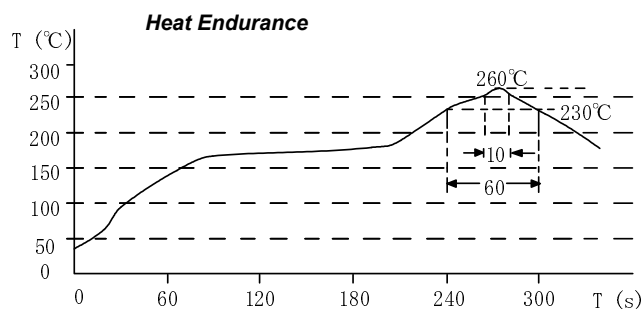
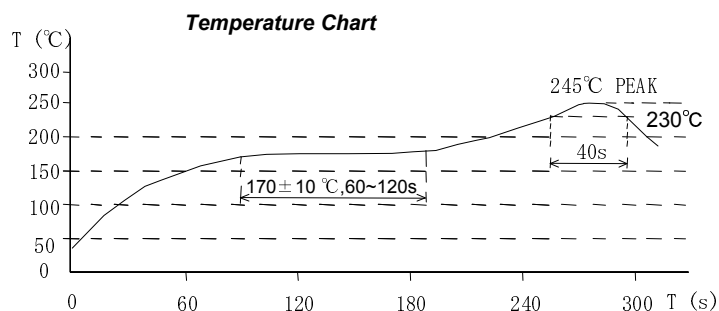
— L (20°C) — ΔT



SMD Power Inductor 0512CDMC/DS



Solder Reflow Condition



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Hong Kong

Tel. +852-2880-6688
FAX. +852-2565-9600
sales@hk.sumida.com

Tokyo

Tel. +81-3-5202-7112
FAX. +81-3-5202-7105
sales@jp.sumida.com

Chicago

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

Shanghai

Tel. +86-021-5836-3299
FAX. +86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

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

Obernzell

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

Shenzhen

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

Singapore

Tel. +65-6296-3388
FAX. +65-6296-3390
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
info@comp@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