



**THE DATASHEET OF
0412CDMCBDS-1R5MC**

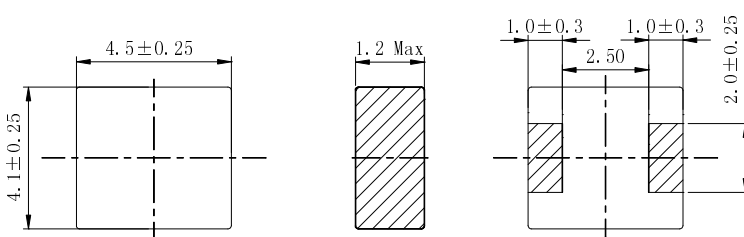


SMD Power Inductor 0412CDMCB/DS

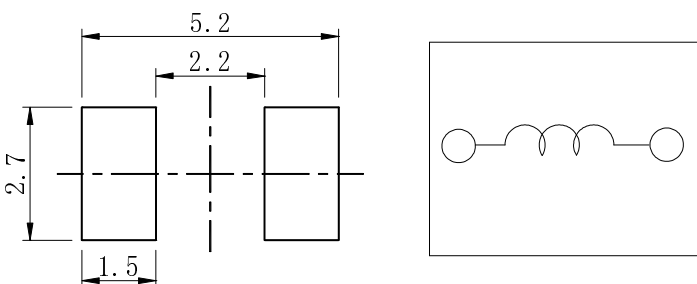


Halogen Free

Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 1.2 mm Max.
- Product weight: 0.12g(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" diameter reel
- 5500pcs per reel

Applications

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

Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R (m Ω) [within] (at 25°C)	Saturation Current [Typ.] (A) ※2	Temperature rise current [Typ.] (A) Thermocouple Method ※3
0412CDMCBDS-R47MC	R47	0.47 ± 20%	19 ± 20%	8.2	5.4
0412CDMCBDS-1R0MC	1R0	1.0 ± 20%	40 ± 20%	5.3	4.5
0412CDMCBDS-1R5MC	1R5	1.5 ± 20%	60 ± 20%	4.4	3.3
0412CDMCBDS-2R2MC	2R2	2.2 ± 20%	79 ± 20%	3.6	2.8
0412CDMCBDS-3R3MC	3R3	3.3 ± 20%	115 ± 20%	3.3	2.3
0412CDMCBDS-4R7MC	4R7	4.7 ± 20%	160 ± 20%	2.7	1.9
0412CDMCBDS-6R8MC	6R8	6.8 ± 20%	240 ± 20%	2.3	1.6
0412CDMCBDS-100MC	100	10.0 ± 20%	370 ± 20%	1.6	1.3

※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)

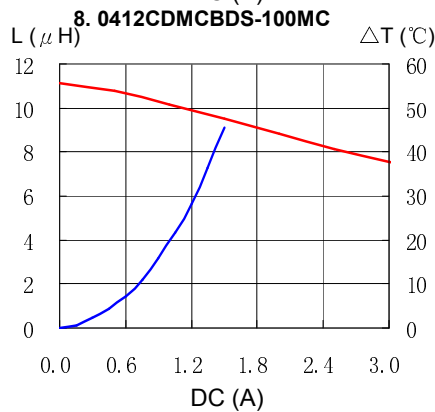
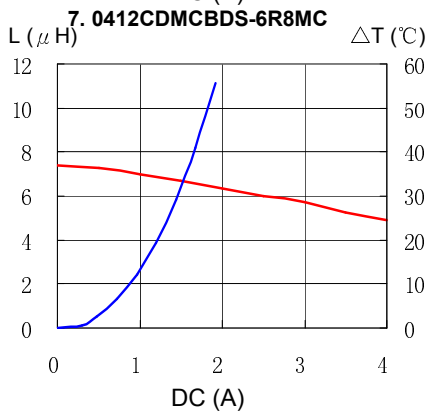
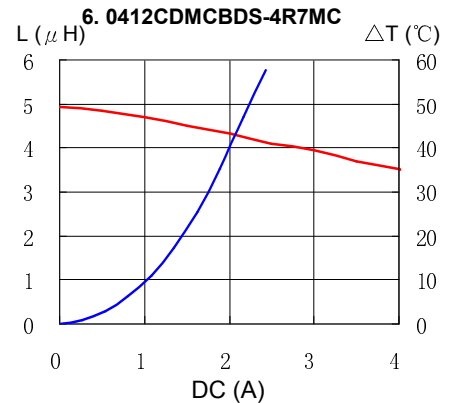
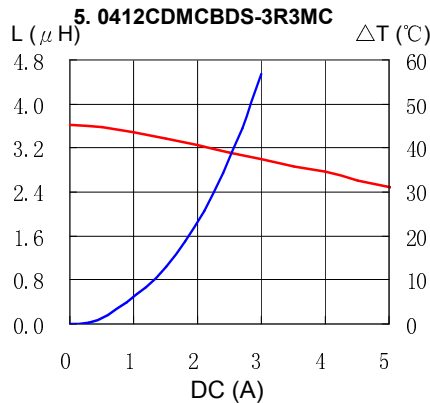
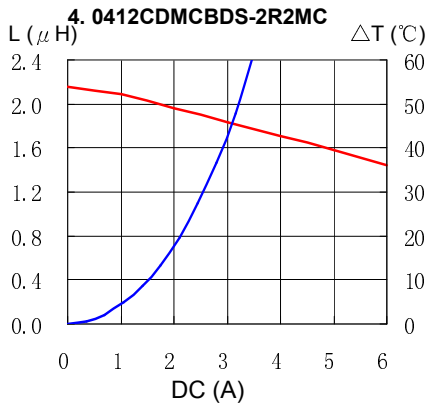
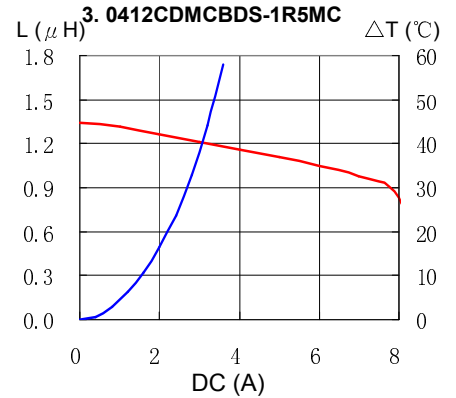
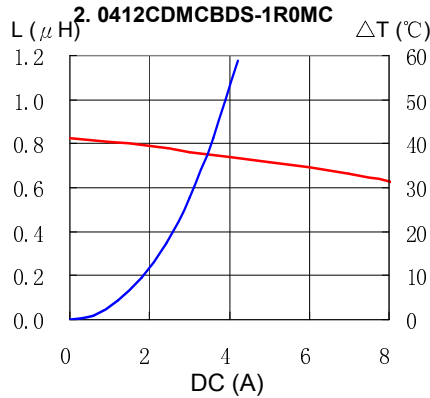
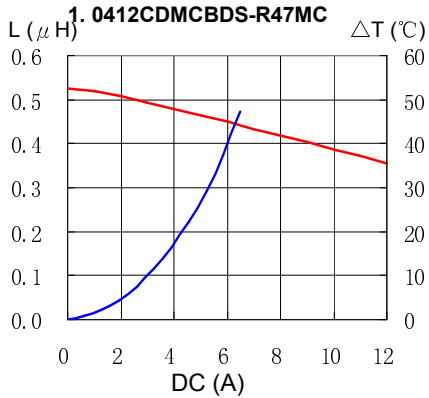
※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

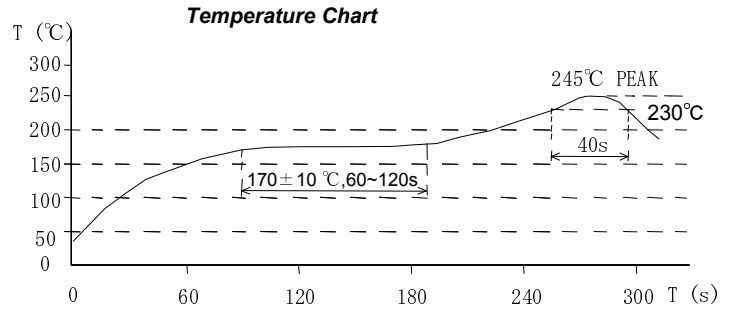
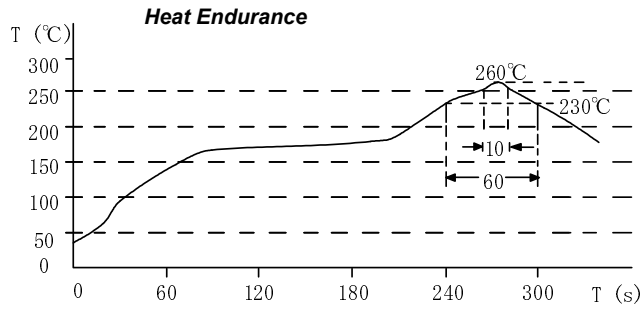


DC (A)

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Solder Reflow Condition



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Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

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

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

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

Oberzell

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

Shenzhen

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

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@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

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