

SMD Power Inductor

0415CDMCB/DS



Description

- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 1.5 mm Max.
- Product weight: 0.15g(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.

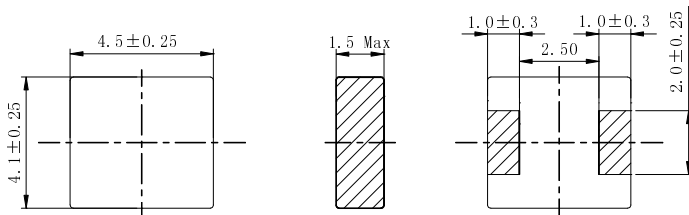
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 4500pcs per reel

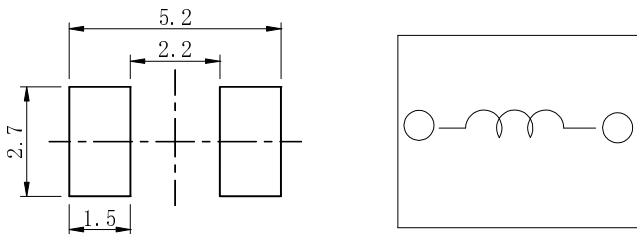
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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
0415CDMCBDS-R33MC	R33	0.33 ± 20%	10 ± 20%	10.0	7.5
0415CDMCBDS-R47MC	R47	0.47 ± 20%	13 ± 20%	9.5	6.5
0415CDMCBDS-1R0MC	1R0	1.0 ± 20%	30 ± 20%	7.0	4.5
0415CDMCBDS-1R5MC	1R5	1.5 ± 20%	45 ± 20%	4.5	3.5
0415CDMCBDS-2R2MC	2R2	2.2 ± 20%	67 ± 20%	3.8	3.0
0415CDMCBDS-3R3MC	3R3	3.3 ± 20%	82 ± 20%	3.2	2.5
0415CDMCBDS-4R7MC	4R7	4.7 ± 20%	108 ± 20%	2.8	2.2
0415CDMCBDS-6R8MC	6R8	6.8 ± 20%	185 ± 20%	2.3	1.6
0415CDMCBDS-100MC	100	10.0 ± 20%	285 ± 20%	1.8	1.4

※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)

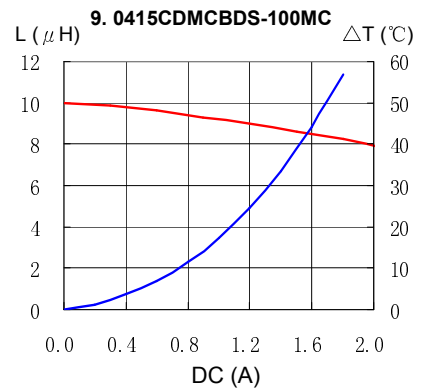
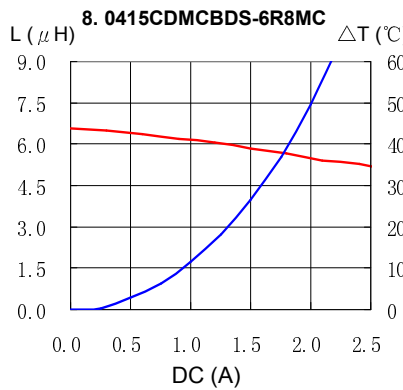
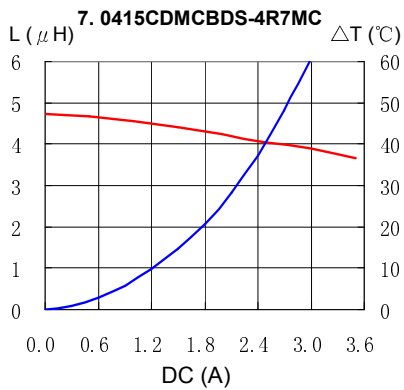
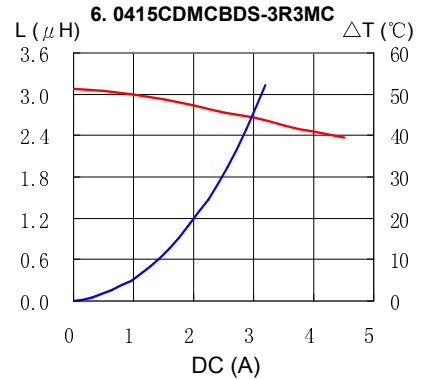
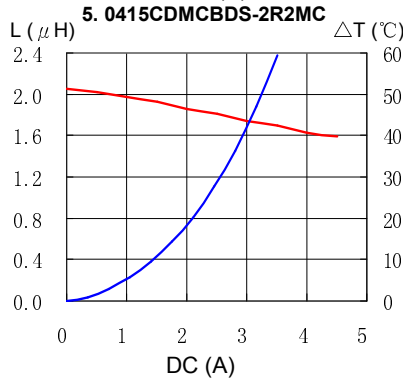
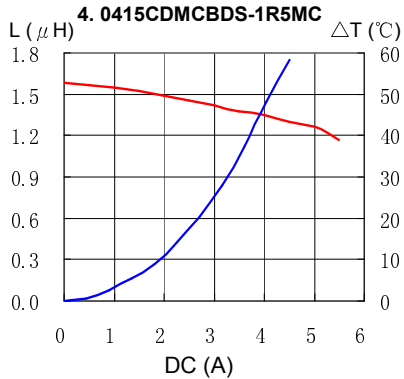
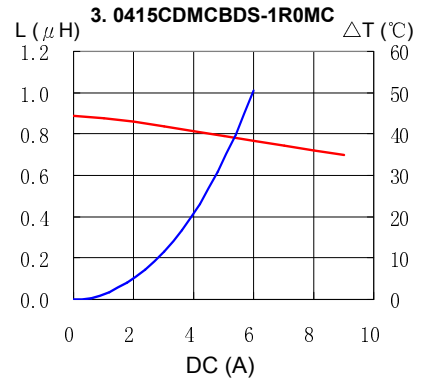
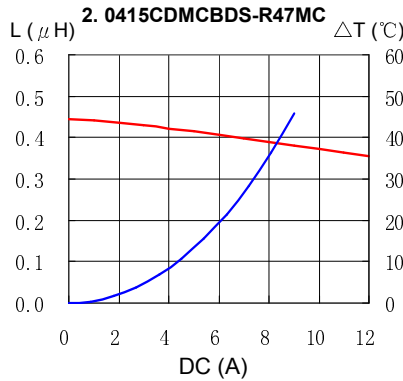
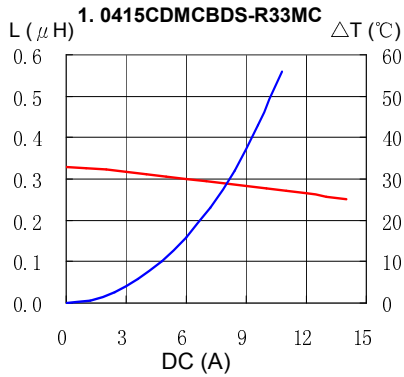
※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

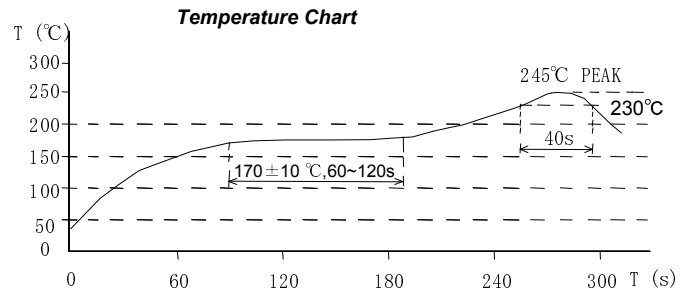
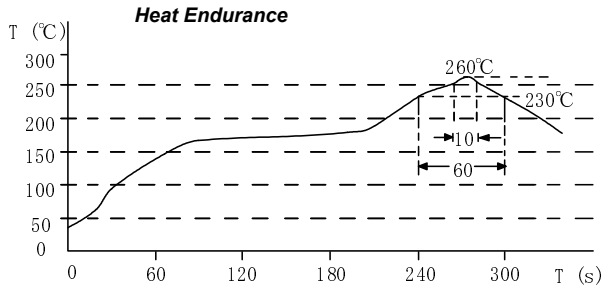
— L (20°C) — ΔT



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Solder Reflow Condition



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

Tokyo

Tel.+81-3-5202-7112
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Shanghai

Tel.+86-021-5836-3299
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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@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
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

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