

SMD Power Inductor

0410CDMCB/DS



Halogen Free

Description

- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 1.0 mm Max.
- Product weight: 0.12 g(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.

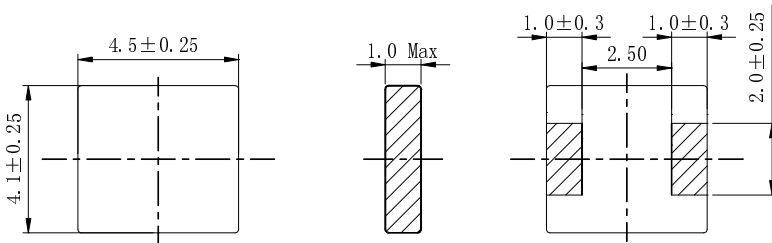
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 5500pcs per reel

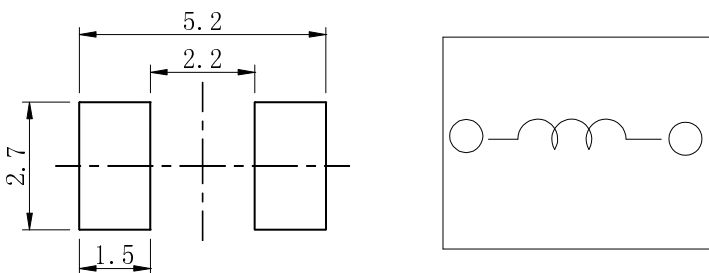
Applications

- Ideally used in notebook, ultra book, 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 (μH) [Within] ※1	D.C.R (mΩ) [Within] at 25°C	Saturation Current [Typ.](A) ※2	Temperature rise current [Typ.](A) Thermocouple Method ※3
0410CDMCBDS-R47MC	R47	0.47 ± 20%	29 ± 20%	4.2	4.6
0410CDMCBDS-1R0MC	1R0	1.0 ± 20%	42 ± 20%	3.2	4.0
0410CDMCBDS-1R2MC	1R2	1.2 ± 20%	49 ± 20%	2.6	3.6
0410CDMCBDS-1R5MC	1R5	1.5 ± 20%	66 ± 20%	2.5	3.4
0410CDMCBDS-1R8MC	1R8	1.8 ± 20%	75 ± 20%	2.4	2.8
0410CDMCBDS-2R2MC	2R2	2.2 ± 20%	104 ± 20%	2.0	2.6
0410CDMCBDS-3R3MC	3R3	3.3 ± 20%	165 ± 20%	1.8	2.2
0410CDMCBDS-4R7MC	4R7	4.7 ± 20%	218 ± 20%	1.4	1.6

※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)

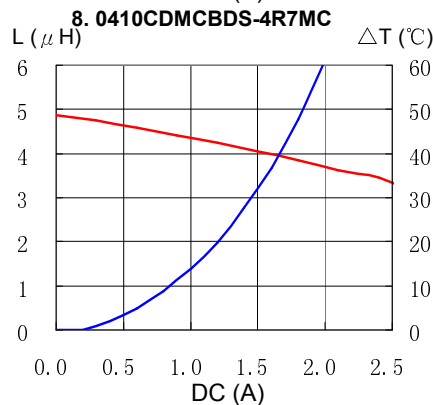
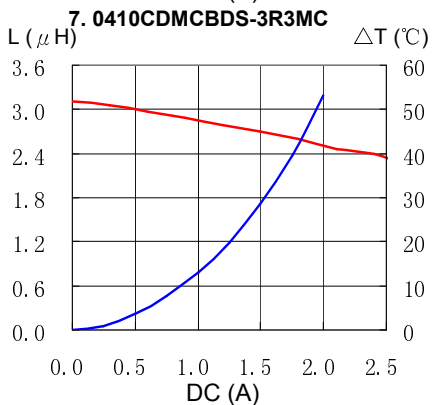
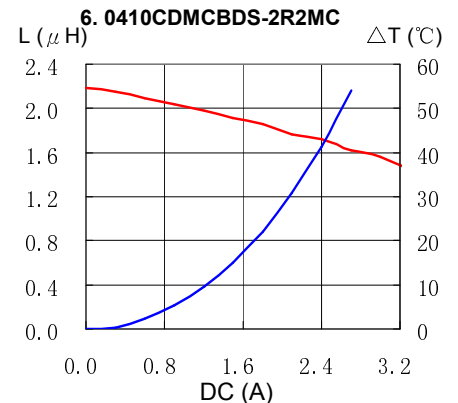
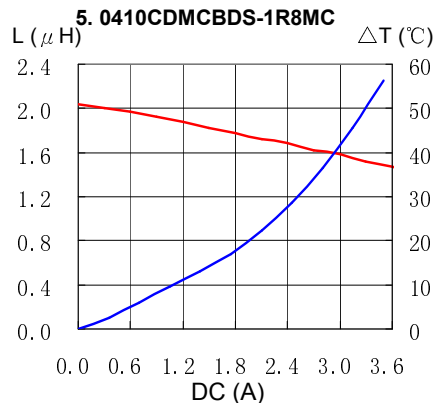
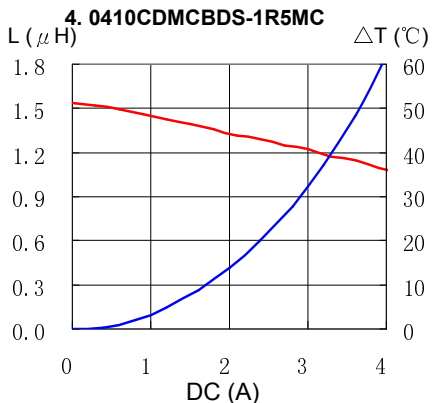
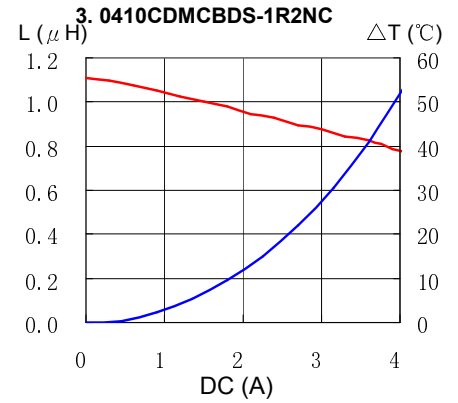
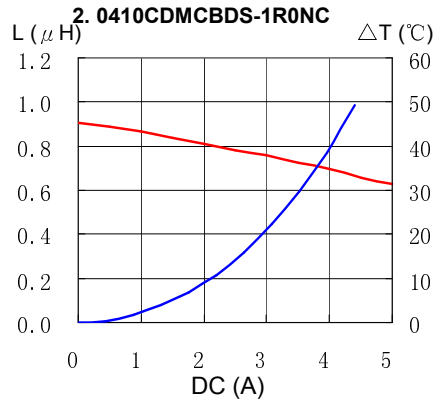
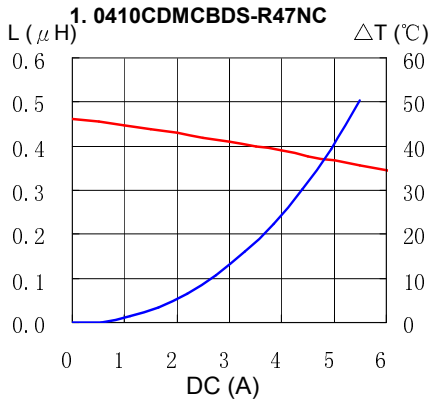
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is ΔT = 40°C (Ta = 25°C).

SMD Power Inductor 0410CDMCB/DS



Saturation Current & Temperature Rise Graph

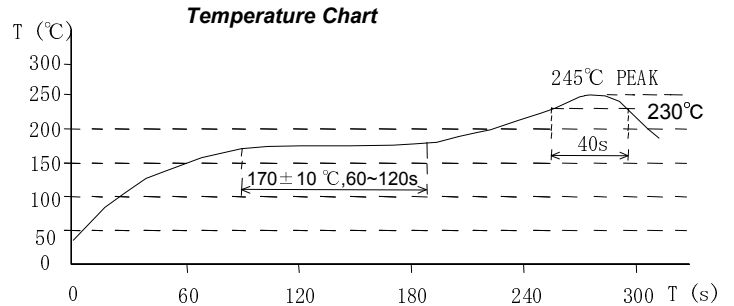
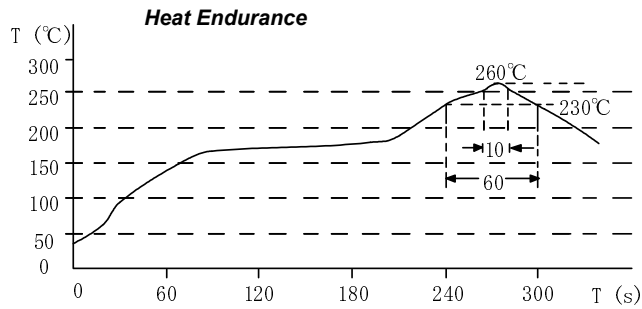
— L (25°C) — ΔT



SMD Power Inductor 0410CDMCB/DS



Solder Reflow Condition



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

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