

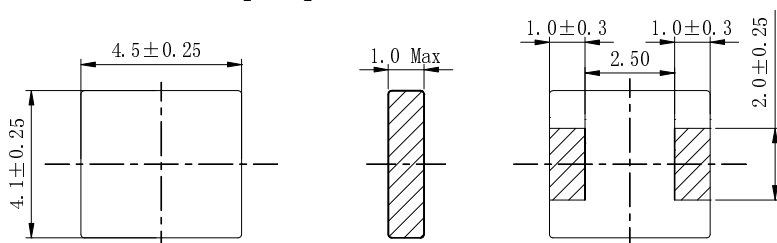
SMD Power Inductor

0410CDMCB/DS

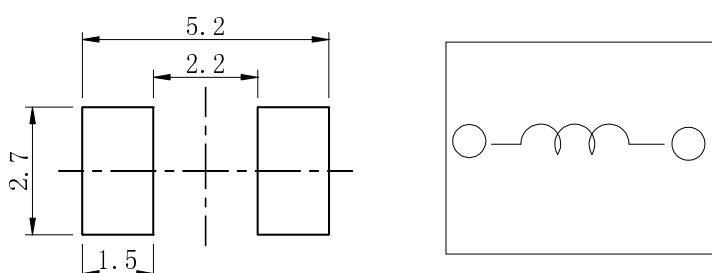


**Halogen
Free**

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
0410CDMCBDS-R47MC	R47	0.47 $\pm$ 20%	29 $\pm$ 20%	4.2	4.6
0410CDMCBDS-1R0MC	1R0	1.0 $\pm$ 20%	42 $\pm$ 20%	3.2	4.0
0410CDMCBDS-1R2MC	1R2	1.2 $\pm$ 20%	49 $\pm$ 20%	2.6	3.6
0410CDMCBDS-1R5MC	1R5	1.5 $\pm$ 20%	66 $\pm$ 20%	2.5	3.4
0410CDMCBDS-1R8MC	1R8	1.8 $\pm$ 20%	75 $\pm$ 20%	2.4	2.8
0410CDMCBDS-2R2MC	2R2	2.2 $\pm$ 20%	104 $\pm$ 20%	2.0	2.6
0410CDMCBDS-3R3MC	3R3	3.3 $\pm$ 20%	165 $\pm$ 20%	1.8	2.2
0410CDMCBDS-4R7MC	4R7	4.7 $\pm$ 20%	218 $\pm$ 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 $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

Description

- Magnetically shielded.
- L $\times$ W $\times$ H: 4.75 $\times$ 4.35 $\times$ 1.0 mm Max.
- Product weight: 0.12 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
(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
- 5500pcs per reel

Applications

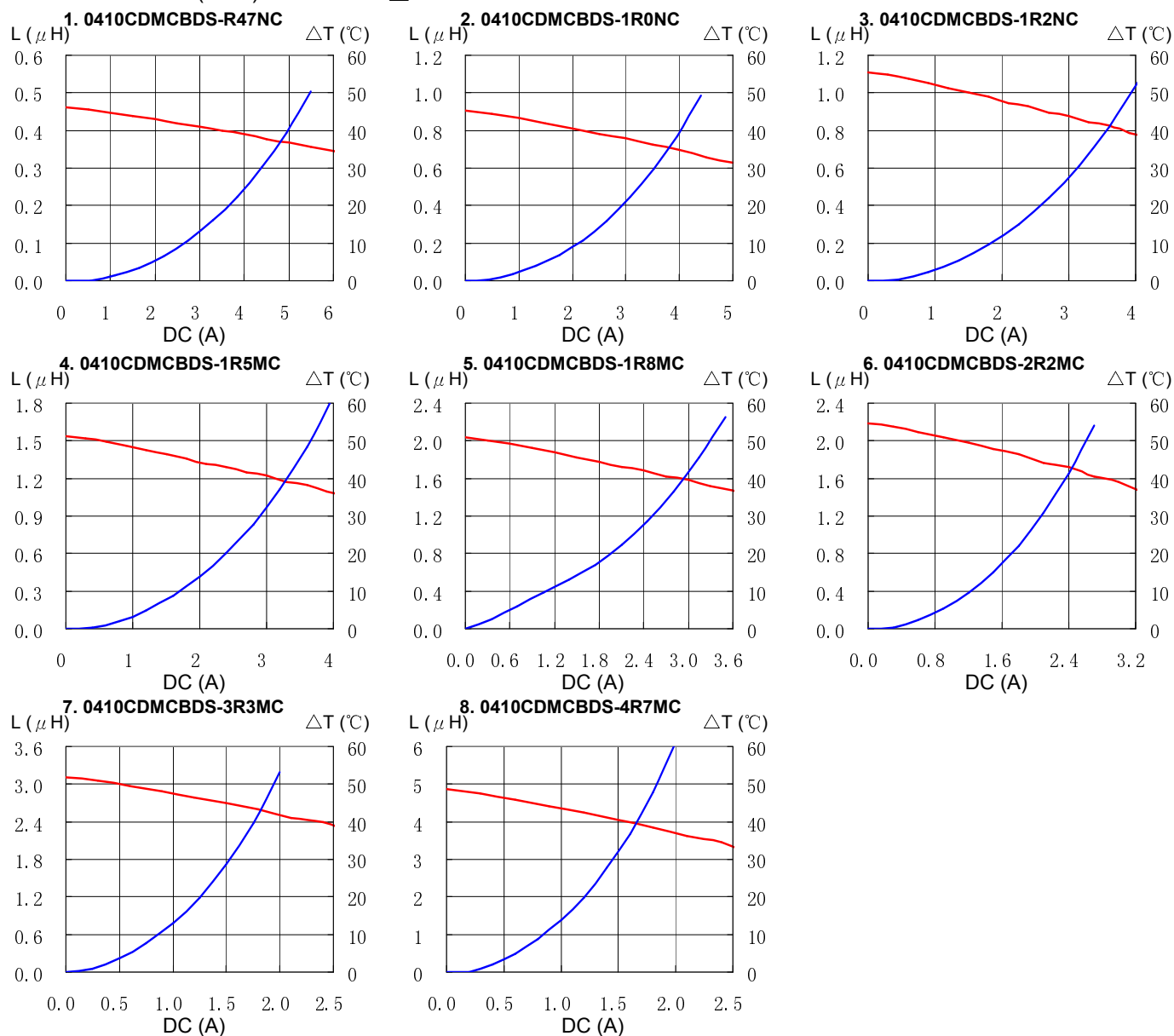
- Ideally used in notebook, ultra book, tablet PC, LCD display, SSD and other low profile high current application.

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Saturation Current & Temperature Rise Graph

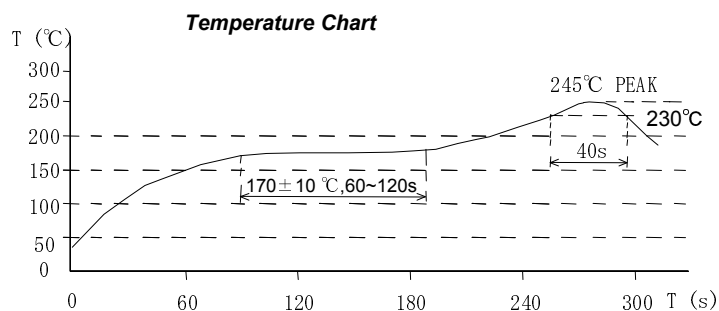
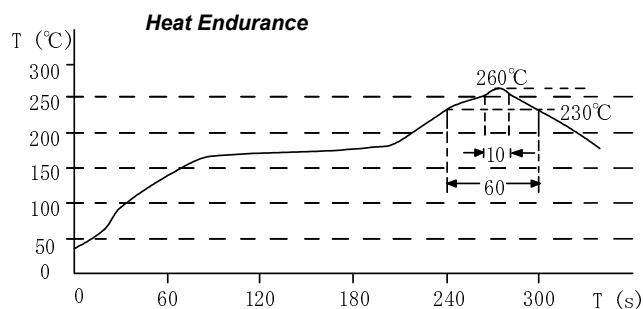
— L (25°C) — ΔT



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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

Obernzell

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
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