

SMD Power Inductor 0410CDMCB/DS



Under Development



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.

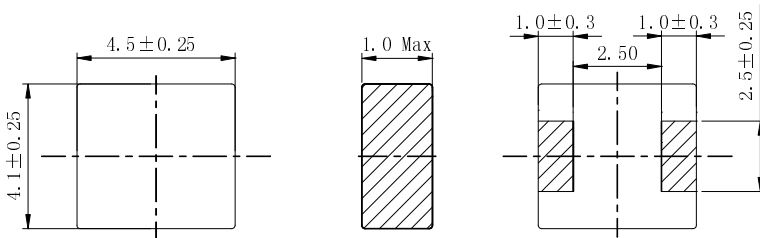
Packaging

- Carrier tape and reel packaging.

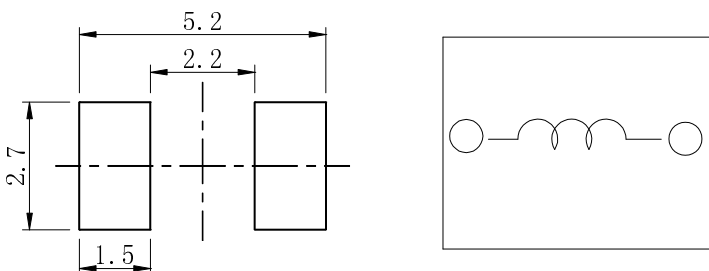
Applications

- 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
0410CDMCBDS-R47NC	R47	0.47 ± 30%	29 ± 20%	4.2	4.6
0410CDMCBDS-1R0NC	1R0	1.0 ± 30%	42 ± 20%	3.2	4.0
0410CDMCBDS-1R2NC	1R2	1.2 ± 30%	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 $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

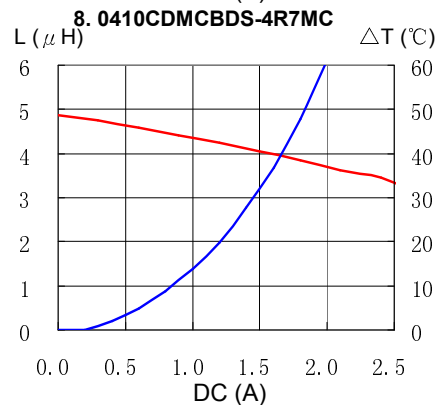
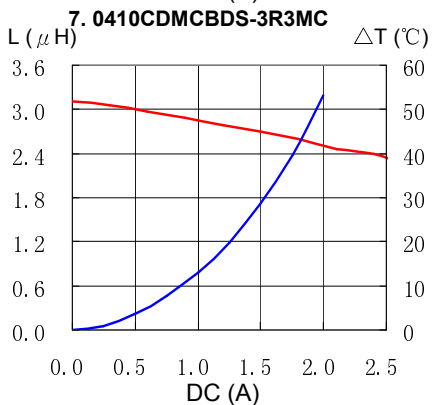
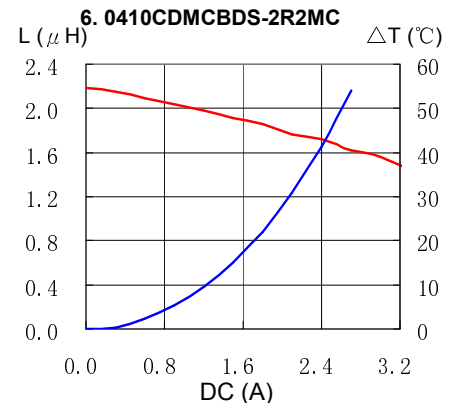
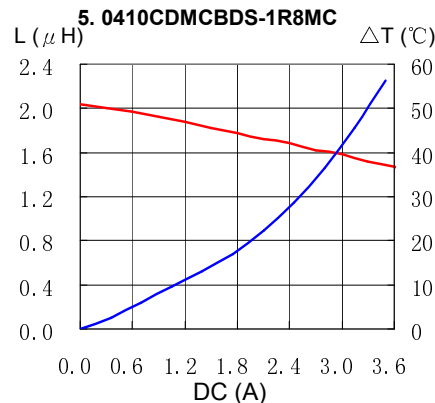
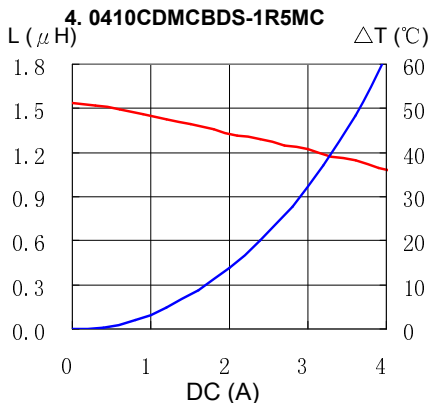
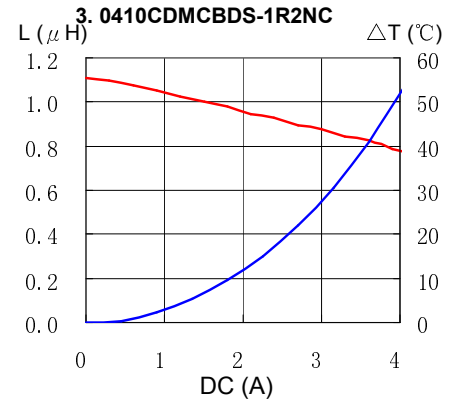
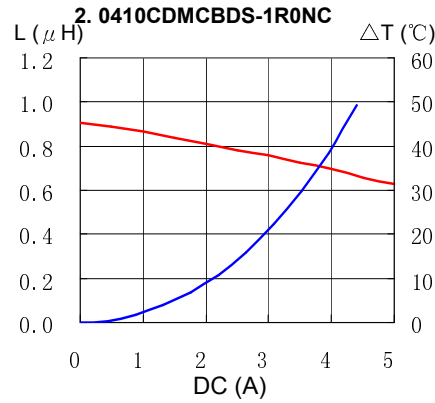
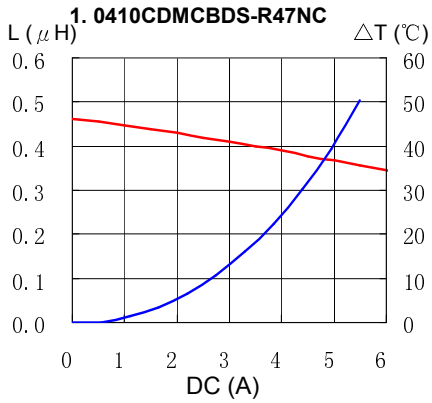
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Saturation Current & Temperature Rise Graph

— L (25°C) — ΔT



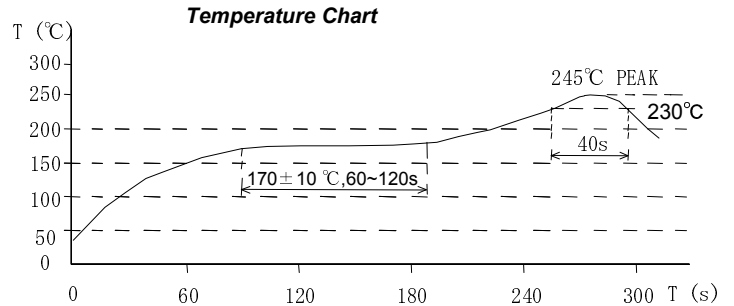
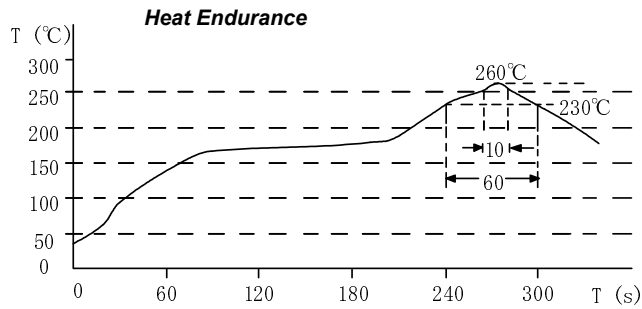
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Solder Reflow Condition



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