



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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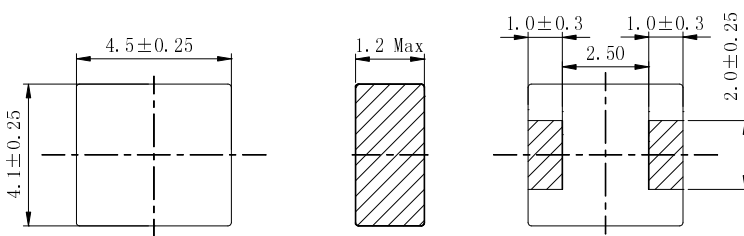


SMD Power Inductor 0412CDMCB/DS

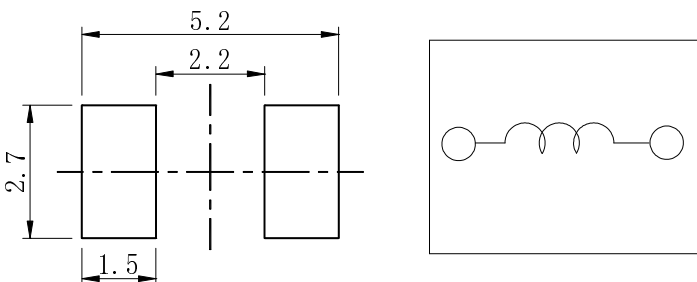


Halogen Free

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
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 $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

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: $-40^\circ\text{C} \sim +105^\circ\text{C}$
(including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
- Solder reflow temperature: 260 °C peak.

Packaging

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

Applications

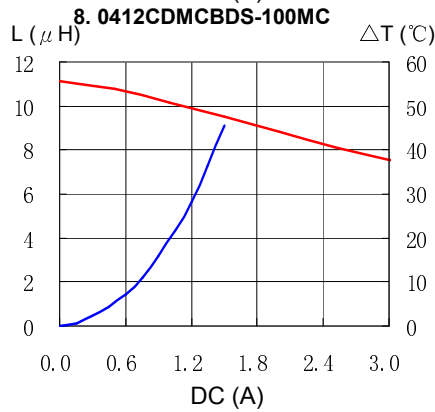
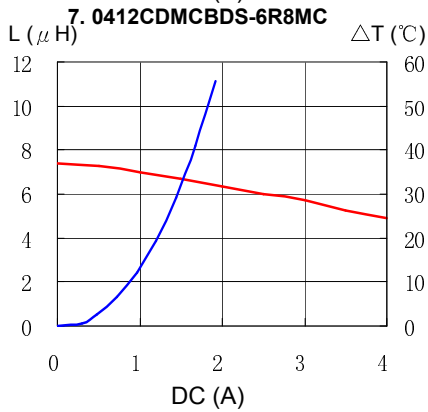
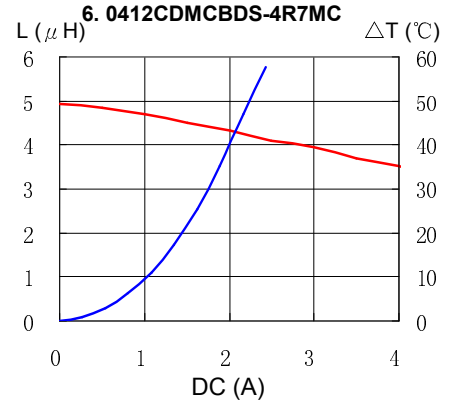
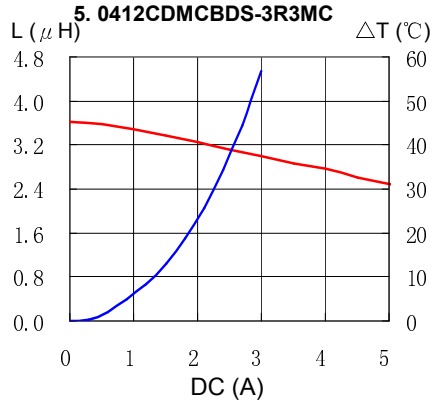
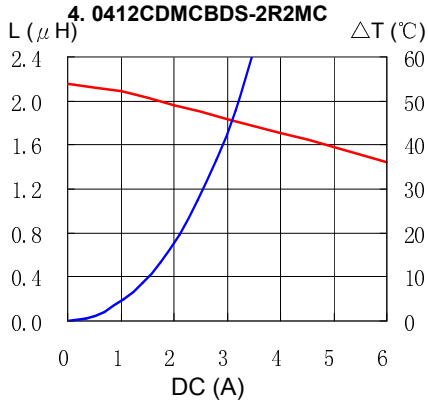
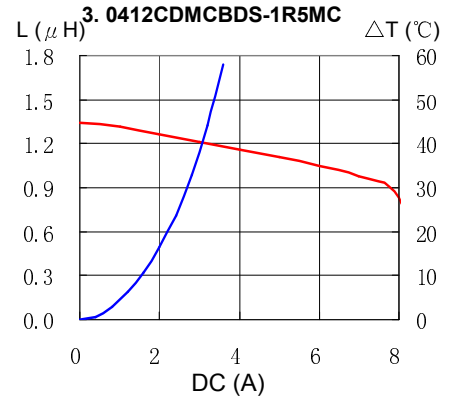
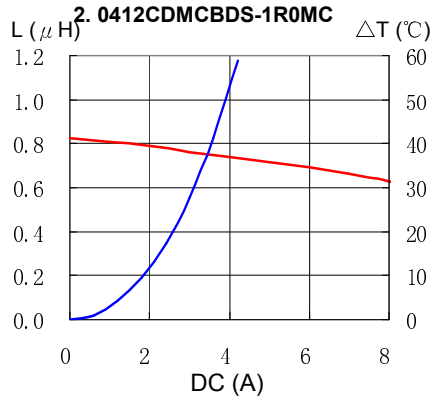
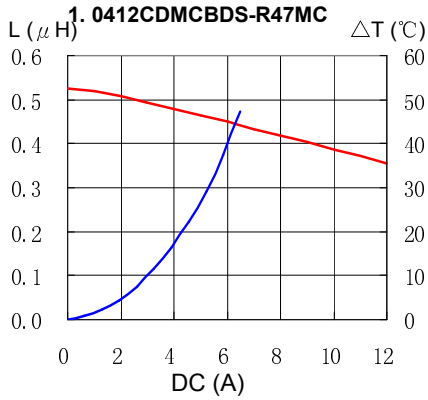
- Ideally used in notebook, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

SMD Power Inductor 0412CDMCB/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

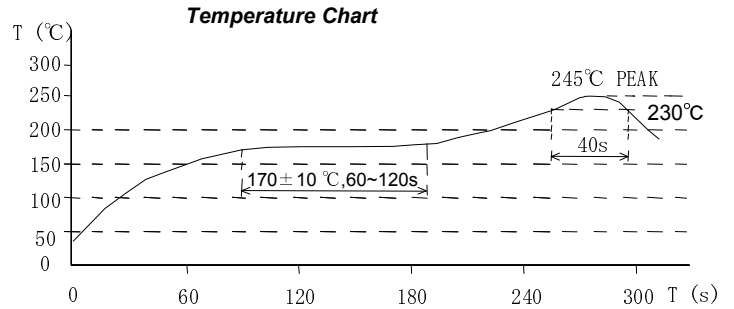
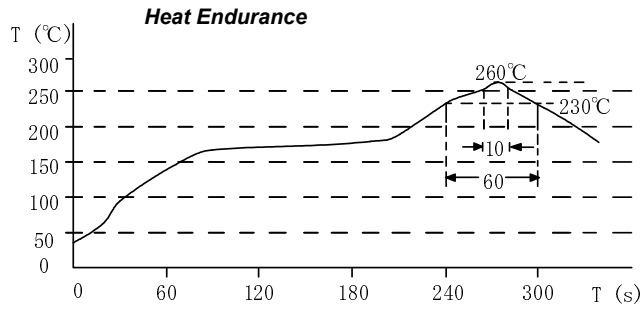


DC (A)

SMD Power Inductor 0412CDMCB/DS



Solder Reflow Condition



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