

SMD Power Inductor

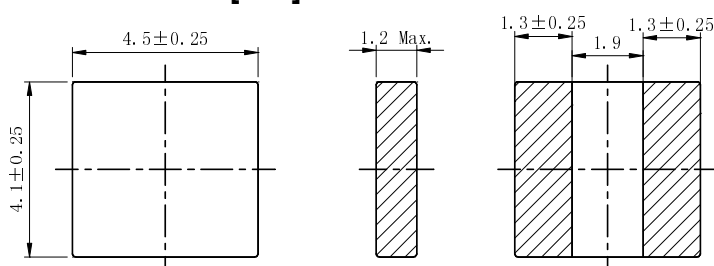
0412CDMC/DS



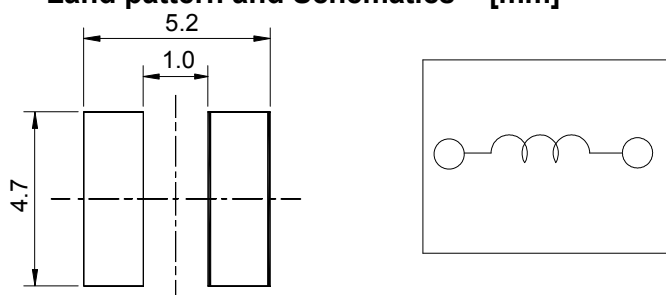
RoHS

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
0412CDMCDS-R47MC	R47	0.47 $\pm$ 20%	19 $\pm$ 20%	8.2	5.4
0412CDMCDS-1R0MC	1R0	1.0 $\pm$ 20%	40 $\pm$ 20%	5.3	4.5
0412CDMCDS-1R5MC	1R5	1.5 $\pm$ 20%	60 $\pm$ 20%	4.4	3.3
0412CDMCDS-2R2MC	2R2	2.2 $\pm$ 20%	79 $\pm$ 20%	3.6	2.8
0412CDMCDS-3R3MC	3R3	3.3 $\pm$ 20%	115 $\pm$ 20%	3.3	2.3
0412CDMCDS-4R7MC	4R7	4.7 $\pm$ 20%	160 $\pm$ 20%	2.7	1.9
0412CDMCDS-6R8MC	6R8	6.8 $\pm$ 20%	240 $\pm$ 20%	2.3	1.6
0412CDMCDS-100MC	100	10.0 $\pm$ 20%	370 $\pm$ 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 $\times$ W $\times$ H: 4.75 $\times$ 4.35 $\times$ 1.2 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
- 5500 pcs per reel

Applications

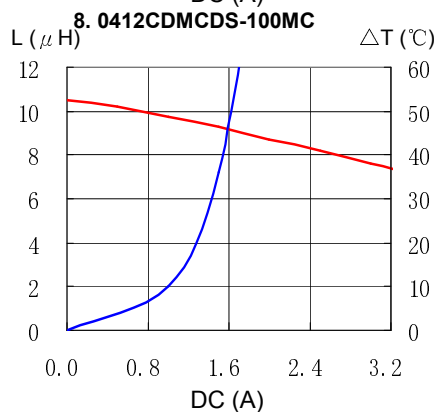
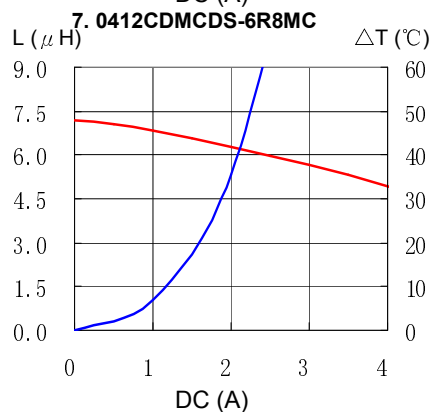
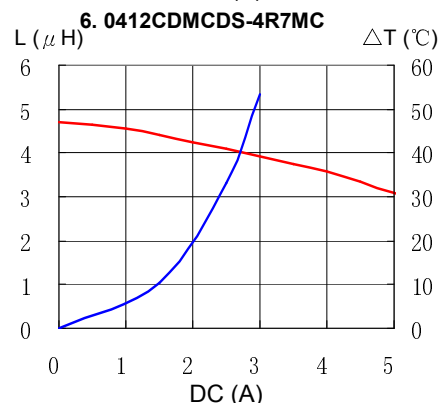
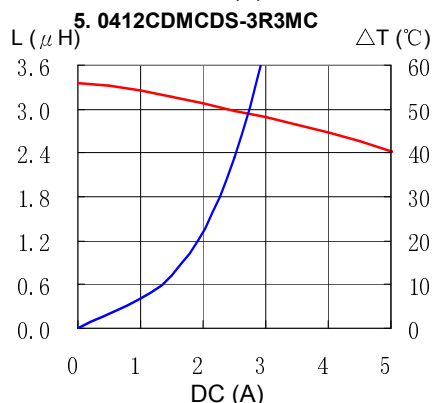
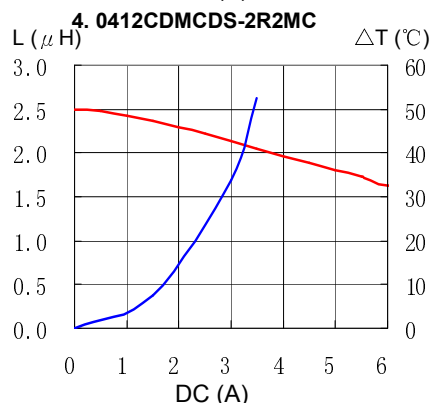
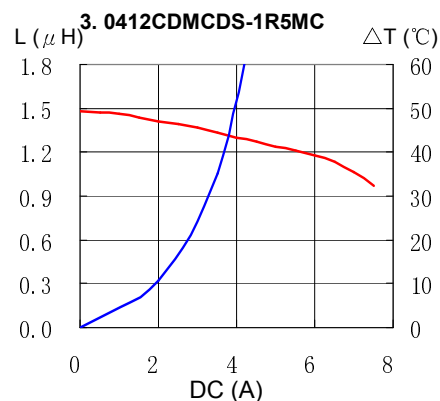
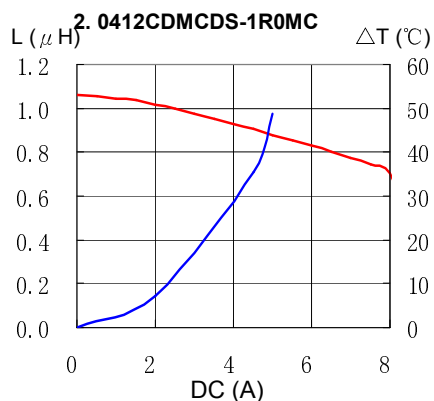
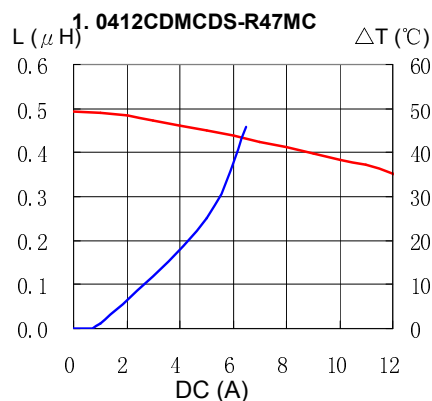
- Ideally used in notebook, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

SMD Power Inductor 0412CDMC/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

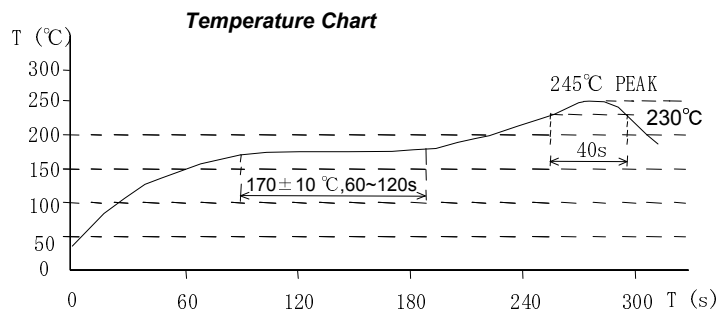
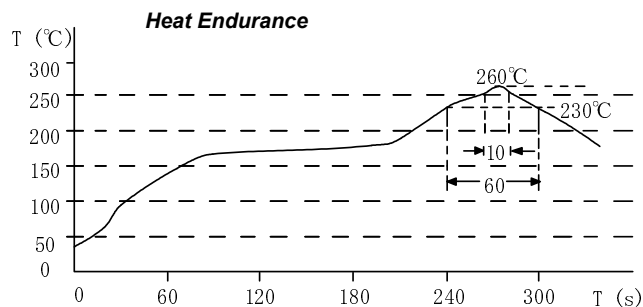


DC (A)

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Solder Reflow Condition



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