SMD Power Inductor
0415CDMCB/DS

RoHS

Halogen Free

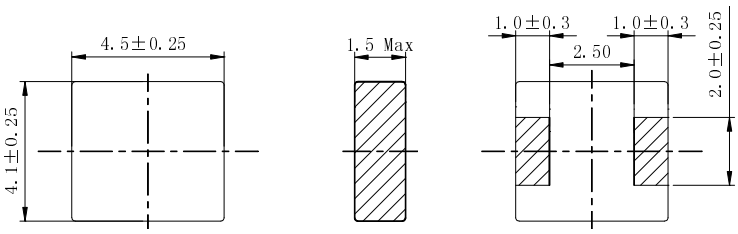
Description
- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 1.5 mm Max.
- Product weight: 0.15g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

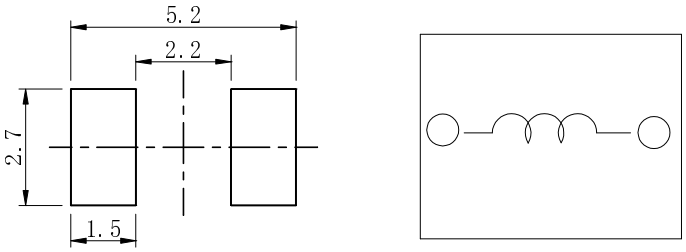
Packaging
- Carrier tape and reel packaging.
- 13.0"diameter reel
- 4500pcs per reel

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 (μH) [within] ※1	D.C.R (mΩ) [within] at 25℃	Saturation Current [Typ.](A) ※2	Temperature rise current [Typ.] (A) Thermocouple Method※3
0415CDMCBDS-R33MC	R33	0.33±20%	10±20%	10.0	7.5
0415CDMCBDS-R47MC	R47	0.47±20%	13±20%	9.5	6.5
0415CDMCBDS-1R0MC	1R0	1.0±20%	30±20%	7.0	4.5
0415CDMCBDS-1R5MC	1R5	1.5±20%	45±20%	4.5	3.5
0415CDMCBDS-2R2MC	2R2	2.2±20%	67±20%	3.8	3.0
0415CDMCBDS-3R3MC	3R3	3.3±20%	82±20%	3.2	2.5
0415CDMCBDS-4R7MC	4R7	4.7±20%	108±20%	2.8	2.2
0415CDMCBDS-6R8MC	6R8	6.8±20%	185±20%	2.3	1.6
0415CDMCBDS-100MC	100	10.0±20%	285±20%	1.8	1.4

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

Revised: 13-Mar-13

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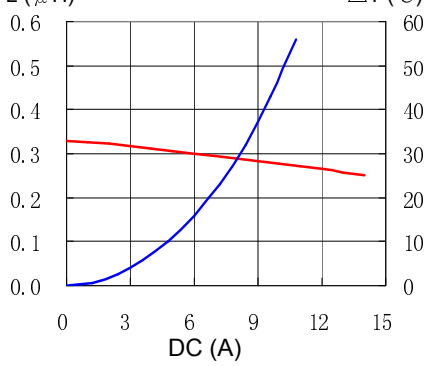
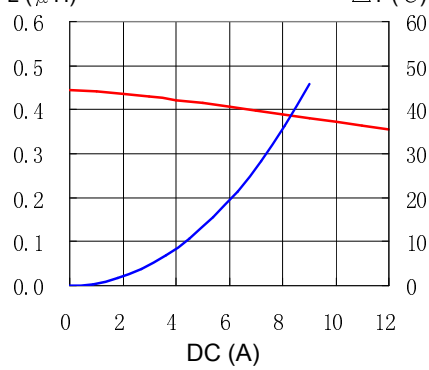
Saturation Current & Temperature Rise Graph

L (20℃) △T

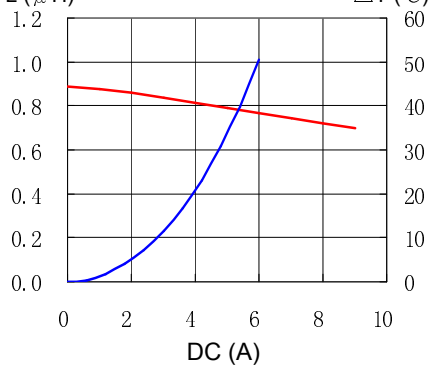
1. 0415CDMCBDS-R33MC



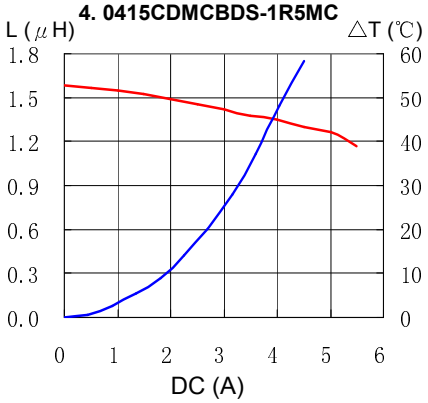
2. 0415CDMCBDS-R47MC



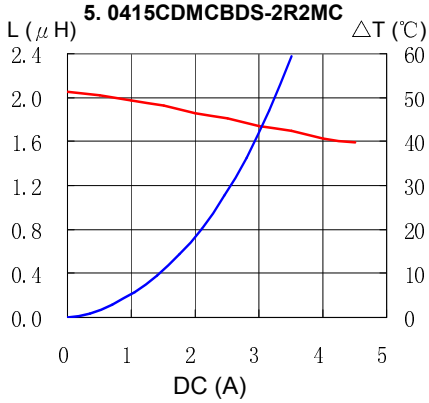
3. 0415CDMCBDS-1R0MC



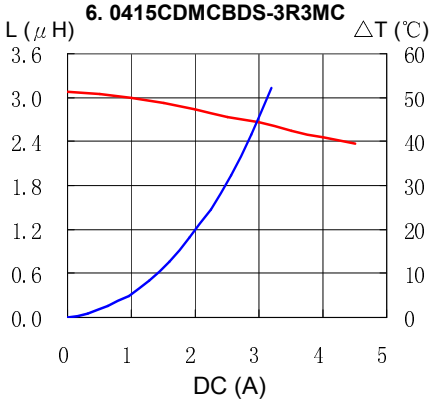
4. 0415CDMCBDS-1R5MC



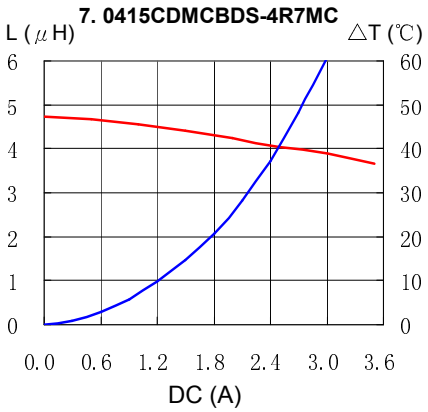
5. 0415CDMCBDS-2R2MC



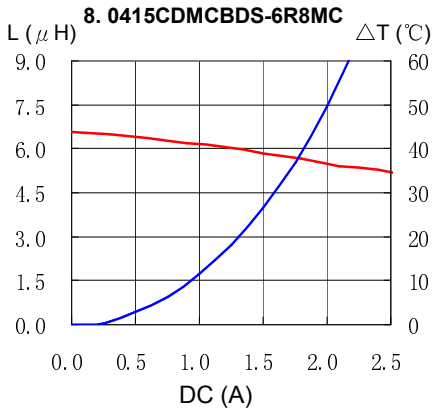
6. 0415CDMCBDS-3R3MC



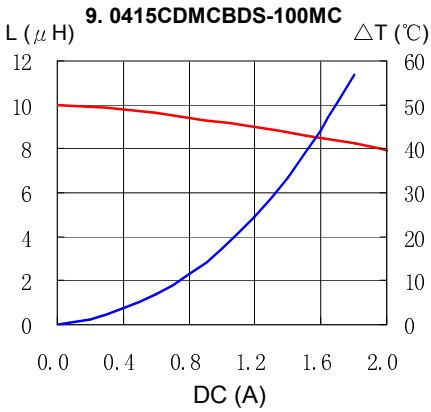
7. 0415CDMCBDS-4R7MC



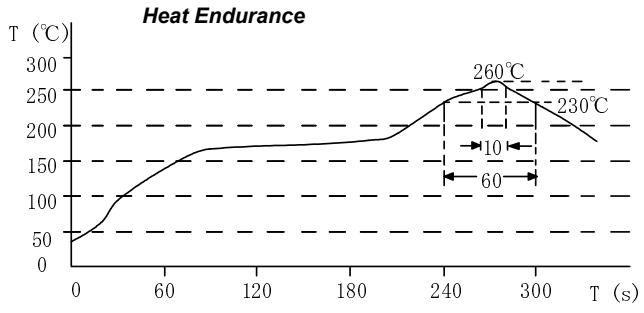
8. 0415CDMCBDS-6R8MC

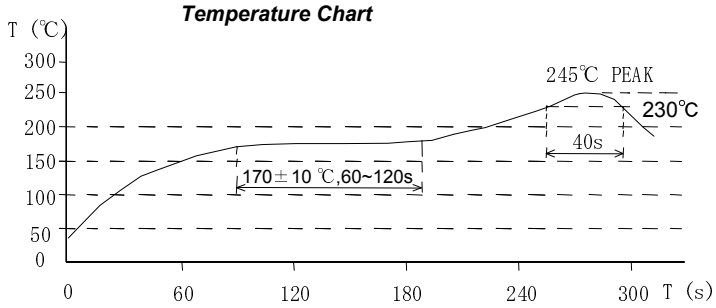


9. 0415CDMCBDS-100MC



Solder Reflow Condition





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