SMD Power Inductor
0420CDMCB/DS

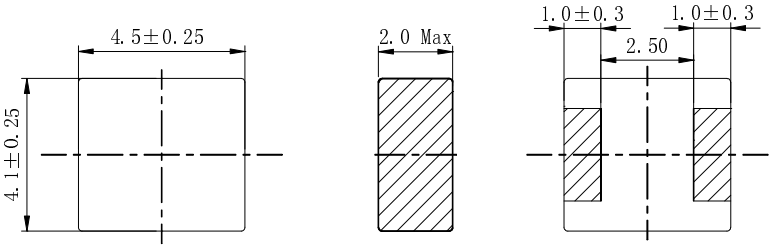
Under Development

RoHS

Halogen Free

Description
- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 2.0 mm Max.
- Product weight: 0.17g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

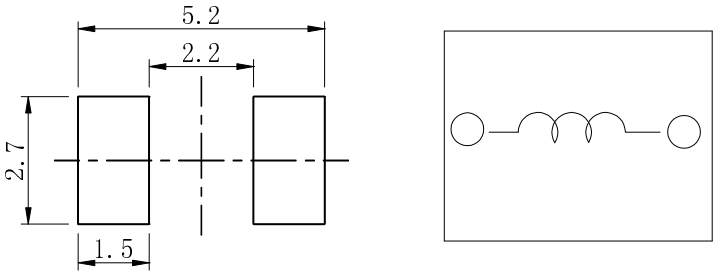
Dimension - [mm]



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.

Land pattern and Schematics - [mm]



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

Electrical Characteristics

Part. No	Stamp	Inductance (uH) [within] ※1	D.C.R (mΩ) [within]	Saturation Current (A) (typ.) ※2	Temperature rise current (A) (typ.) Thermocouple Method※3
0420CDMCBDS-R22MC	R22	0.22±20%	5.3±20%	15.0	10.1
0420CDMCBDS-R33MC	R33	0.33±20%	6.0±20%	12.6	8.9
0420CDMCBDS-R47MC	R47	0.47±20%	8.2±20%	11.0	8.1
0420CDMCBDS-1R0MC	1R0	1.0±20%	17±20%	6.8	5.5
0420CDMCBDS-1R5MC	1R5	1.5±20%	23±20%	5.8	4.9
0420CDMCBDS-2R2MC	2R2	2.2±20%	35±20%	4.5	3.9
0420CDMCBDS-3R3MC	3R3	3.3±20%	49±20%	4.1	3.3
0420CDMCBDS-4R7MC	4R7	4.7±20%	67±20%	3.4	2.9
0420CDMCBDS-6R8MC	6R8	6.8±20%	91±20%	2.8	2.4
0420CDMCBDS-100MC	100	10.0±20%	148±20%	2.3	1.9
0420CDMCBDS-220MC	220	22.0±20%	316±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℃)
※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: 10-Sep-12

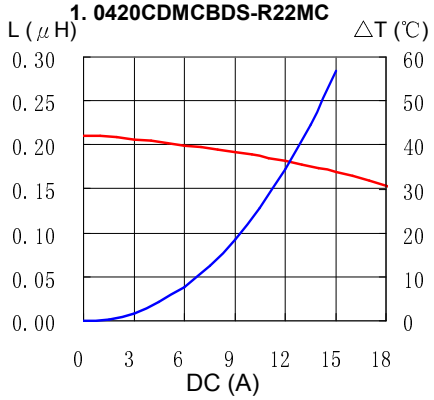
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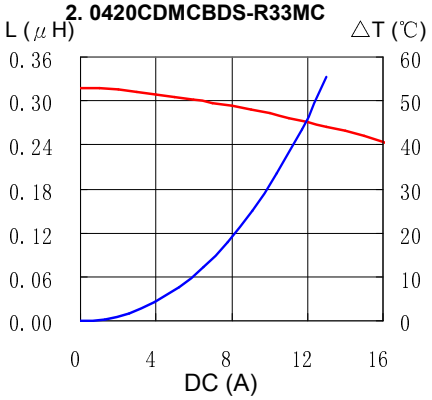
Saturation Current & Temperature Rise Graph

L (20℃) △T

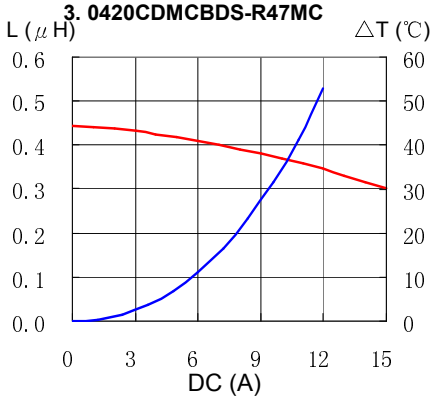
1. 0420CDMCBDS-R22MC



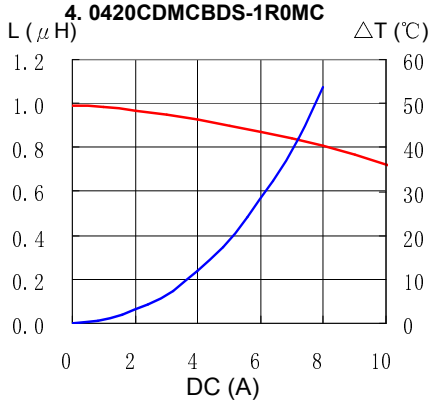
2. 0420CDMCBDS-R33MC



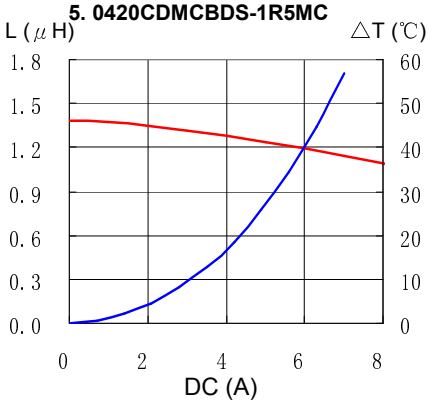
3. 0420CDMCBDS-R47MC



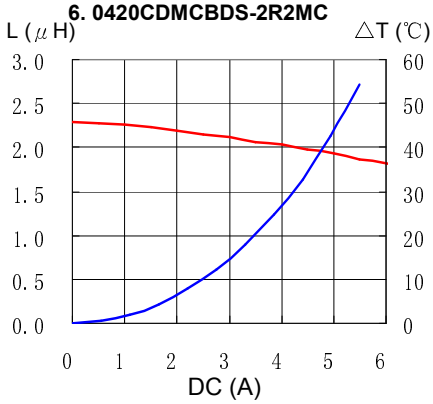
4. 0420CDMCBDS-1R0MC



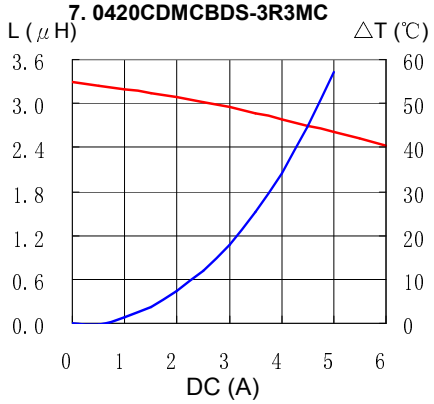
5. 0420CDMCBDS-1R5MC



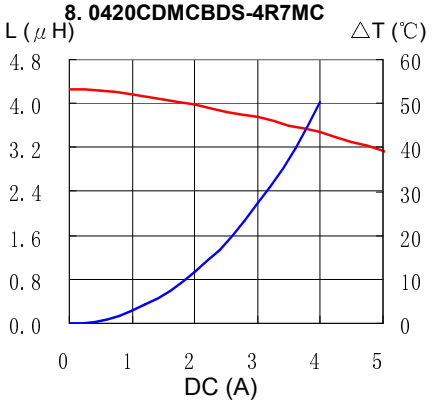
6. 0420CDMCBDS-2R2MC



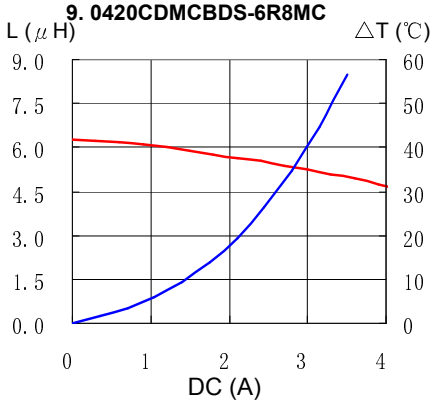
7. 0420CDMCBDS-3R3MC



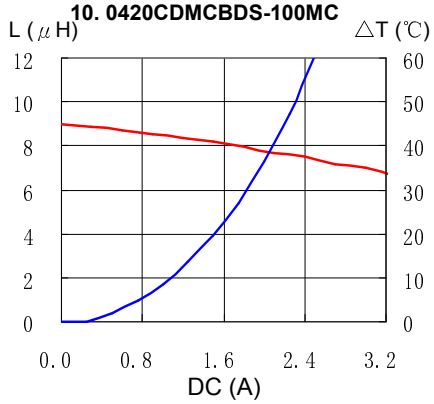
8. 0420CDMCBDS-4R7MC



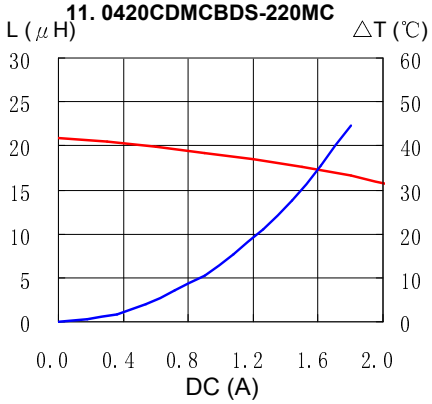
9. 0420CDMCBDS-6R8MC



10. 0420CDMCBDS-100MC



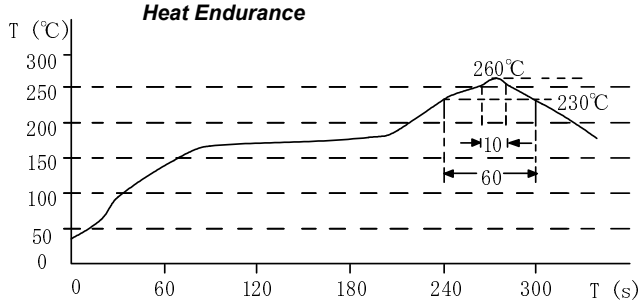
11. 0420CDMCBDS-220MC



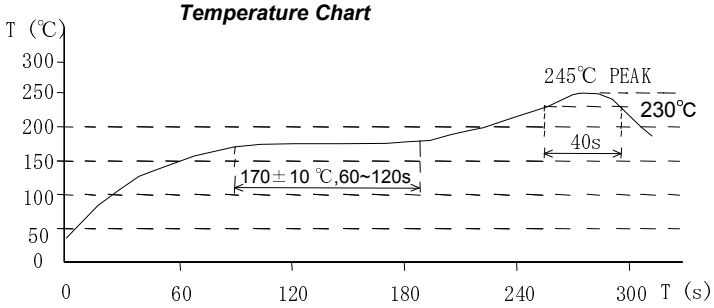
Revised: 10-Sep-12

Solder Reflow Condition

Heat Endurance



Temperature Chart



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