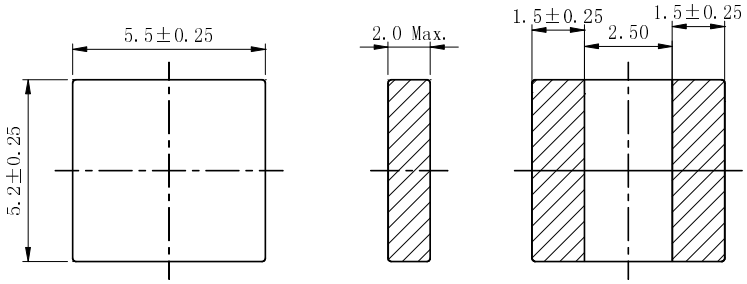
SMD Power Inductor
0520CDMC/DS

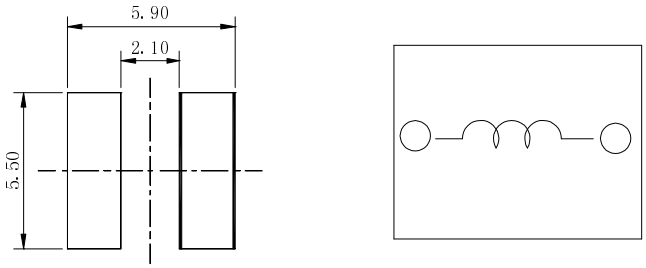
RoHS

Halogen Free

Dimension - [mm]



Land pattern and Schematics - [mm]



Description
- Magnetically shielded.
- L × W × H: 5.75 × 5.45 × 2.0 mm Max.
- Product weight: 0.26g(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
- 3000pcs per reel

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

Revised: 27-Jul-12

Electrical Characteristics

Part Number	Stamp	Inductance (μH) [Within] ※1	D.C.R (mΩ) [within] (at 25℃)	Saturation Current (A) [Typ.] ※2	Temperature rise current (A) [Typ.] ※3
0520CDMCDS-R33MC	R33	0.33±20%	8±20%	14.0	7.9
0520CDMCDS-R47MC	R47	0.47±20%	10±20%	11.0	7.6
0520CDMCDS-R68MC	R68	0.68±20%	13±20%	10.0	6.6
0520CDMCDS-1R0MC	1R0	1.0±20%	17±20%	8.0	5.9
0520CDMCDS-1R5MC	1R5	1.5±20%	24±20%	6.8	4.8
0520CDMCDS-2R2MC	2R2	2.2±20%	30±20%	6.0	4.1
0520CDMCDS-3R3MC	3R3	3.3±20%	50±20%	4.9	3.6
0520CDMCDS-4R7MC	4R7	4.7±20%	65±20%	4.4	2.8
0520CDMCDS-5R6MC	5R6	5.6±20%	75±20%	4.2	2.6
0520CDMCDS-6R8MC	6R8	6.8±20%	85±20%	4.0	2.4
0520CDMCDS-100MC	100	10.0±20%	135±20%	3.0	1.9
0520CDMCDS-150MC	150	15.0±20%	185±20%	2.5	1.7

※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℃).

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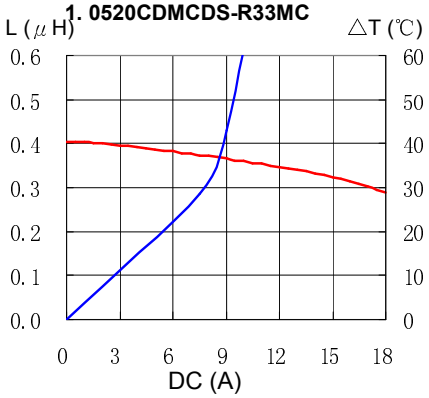
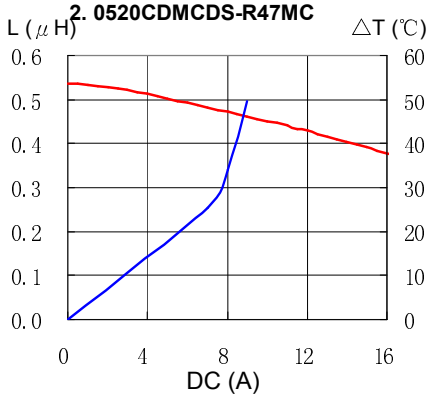
Saturation Current & Temperature Rise Graph

L (20℃) △T

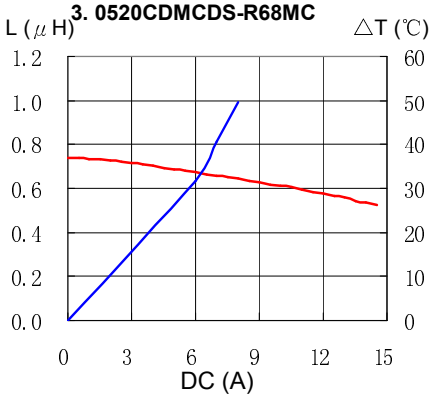
1. 0520CDMCDS-R33MC



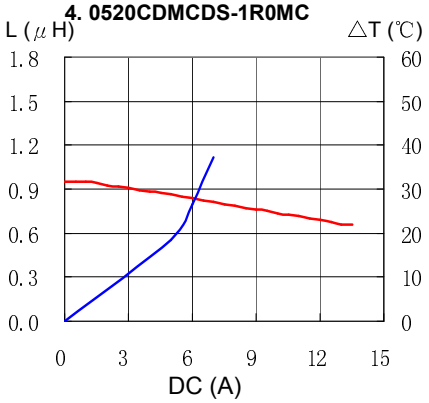
2. 0520CDMCDS-R47MC



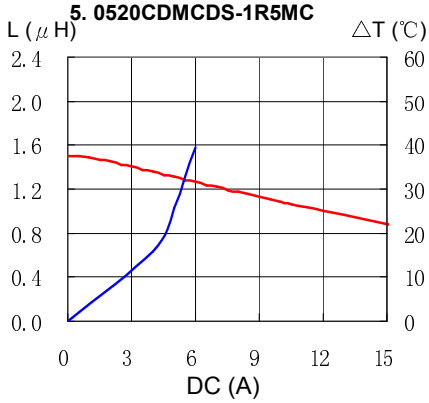
3. 0520CDMCDS-R68MC



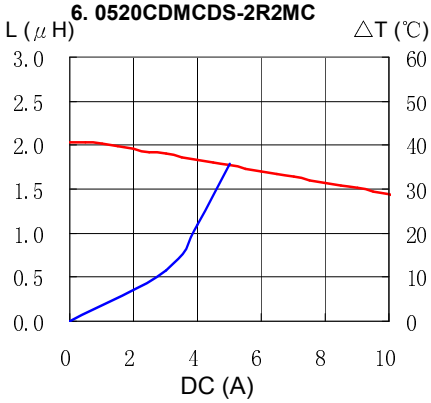
4. 0520CDMCDS-1R0MC



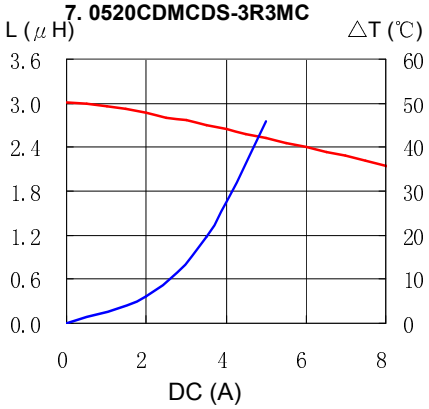
5. 0520CDMCDS-1R5MC



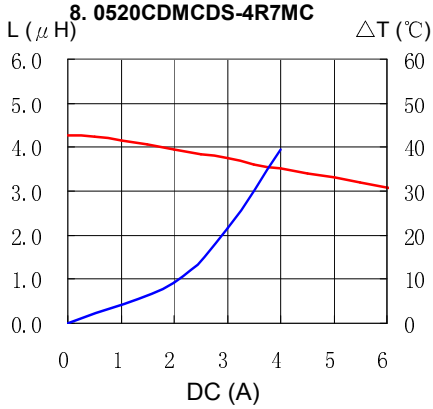
6. 0520CDMCDS-2R2MC



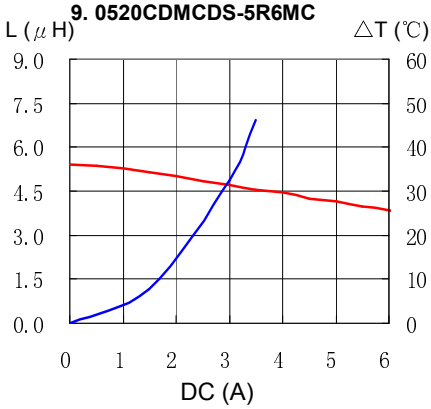
7. 0520CDMCDS-3R3MC



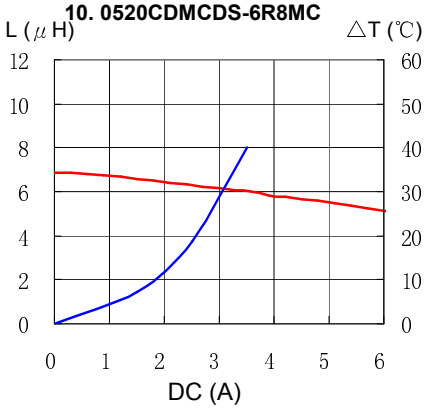
8. 0520CDMCDS-4R7MC



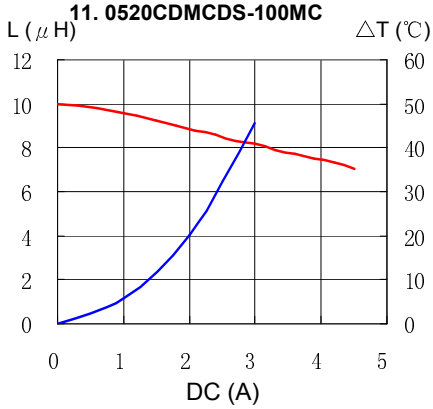
9. 0520CDMCDS-5R6MC



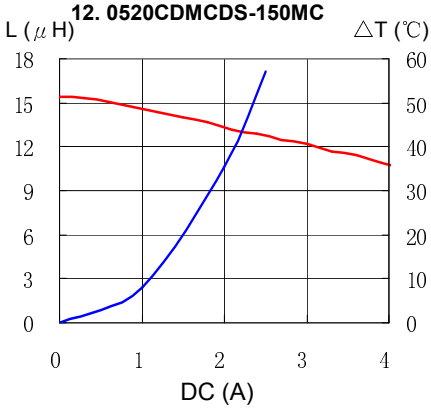
10. 0520CDMCDS-6R8MC



11. 0520CDMCDS-100MC

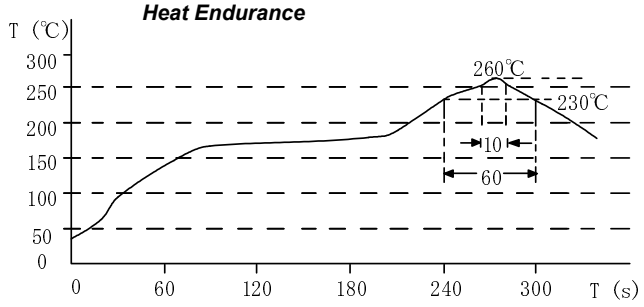


12. 0520CDMCDS-150MC

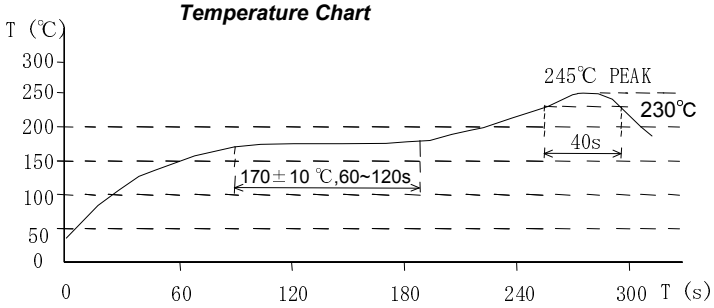


Solder Reflow Condition

Heat Endurance



Temperature Chart



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