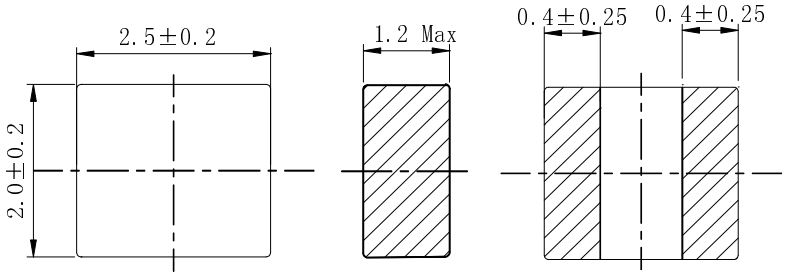
SMD Power Inductor
252012CDMC/DS

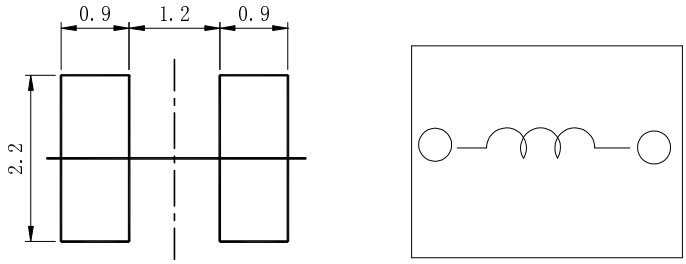
RoHS

Halogen Free

Dimension - [mm]



Land pattern and Schematics - [mm]



Description
- Magnetically shielded.
- L × W × H: 2.7 × 2.2 × 1.2 mm Max.
- Product weight: 30mg(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.
- 7.1" diameter reel
- 3000pcs per reel

Applications
- Ideally used in smart phone, tablet PC,SSD USB3.0 and other low profile high current application.

Electrical Characteristics

Part No.	Inductance (μH) ※1	D.C.R (mΩ) at 25℃	Saturation Current Max. (Typ.) (A) (at25℃) ※2	Temperature rise current Max. (Typ.) (A)	
				※3	※4
252012CDMCDS-R47MC	0.47±20%	20±20%	4.0(4.8)	3.8(4.5)	5.1(5.7)
252012CDMCDS-1R0MC	1.0±20%	35±20%	3.4(4.0)	3.1(3.7)	3.8(4.2)
252012CDMCDS-1R5MC	1.5±20%	55±20%	2.9(3.4)	2.5(2.9)	3.2(3.6)
252012CDMCDS-2R2MC	2.2±20%	75±20%	2.3(2.7)	2.0(2.3)	2.7(3.1)
252012CDMCDS-3R3MC	3.3±20%	105±20%	2.0(2.4)	1.5(1.8)	2.2(2.4)
252012CDMCDS-4R7MC	4.7±20%	150±20%	1.6(1.9)	1.4(1.6)	1.7(2.0)
252012CDMCDS-5R6MC	5.6±20%	200±20%	1.3(1.5)	1.3(1.5)	1.6(1.8)
252012CDMCDS-6R8MC	6.8±20%	300±20%	1.1(1.3)	1.1(1.3)	1.4(1.5)
252012CDMCDS-100MC	10±20%	390±20%	1.0(1.2)	0.9(1.1)	1.2(1.3)

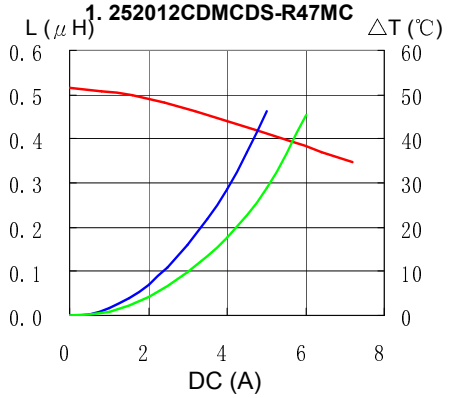
※1 Measuring condition at 1MHz 0.1V
※2 Saturation current: The value of DC current when the inductance is over 70% of the initial value.
※3 Temperature rise current: the value of DC current when the coil temperature rise is △T=40℃(Ta=25℃).
※4 Temperature rise current: The actual value of DC current when the top surface of test sample temperature rise is △T=40℃(Ta=25℃).

Revised: 10-Dec-13

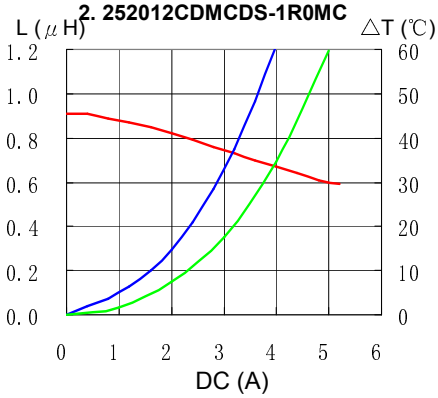
Saturation Current & Temperature Rise Graph

L (20℃) △T(the value of DC current) △T(top surface temperature)

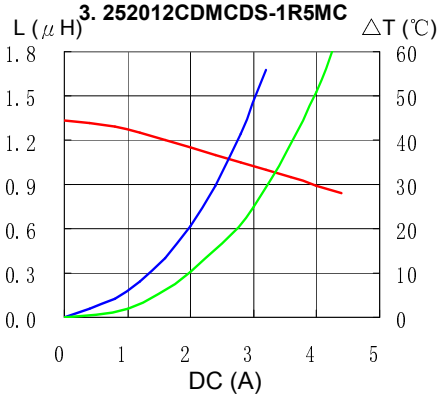
1. 252012CDMCDS-R47MC



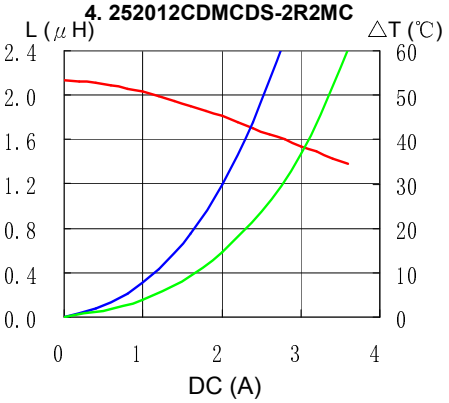
2. 252012CDMCDS-1R0MC



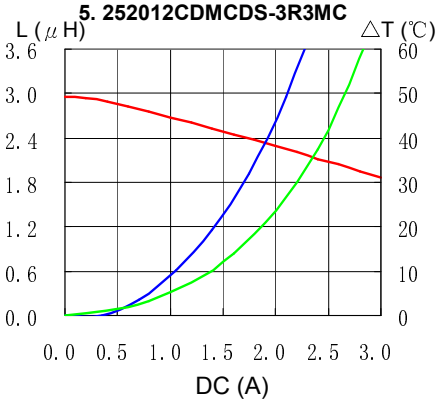
3. 252012CDMCDS-1R5MC



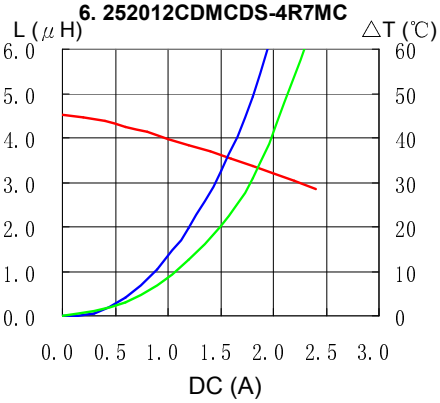
4. 252012CDMCDS-2R2MC



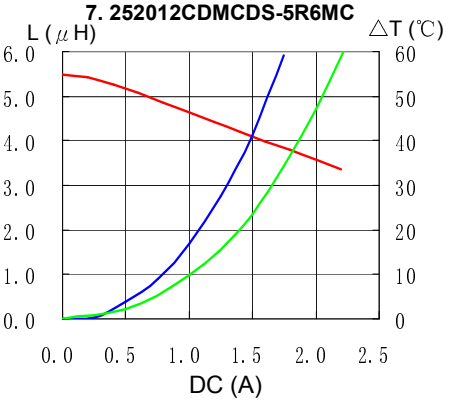
5. 252012CDMCDS-3R3MC



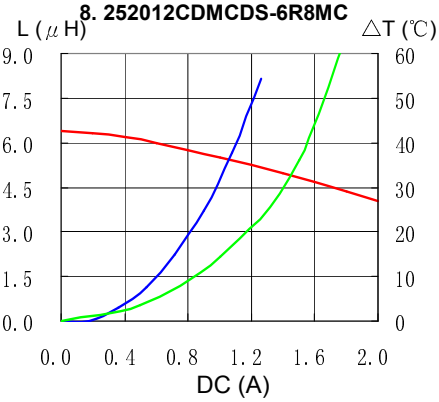
6. 252012CDMCDS-4R7MC



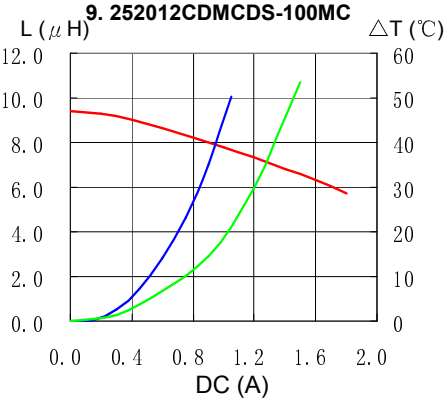
7. 252012CDMCDS-5R6MC



8. 252012CDMCDS-6R8MC

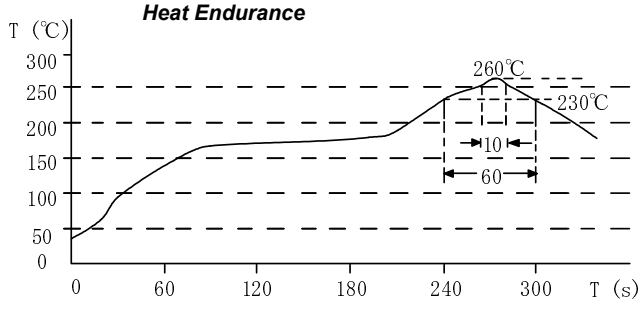


9. 252012CDMCDS-100MC

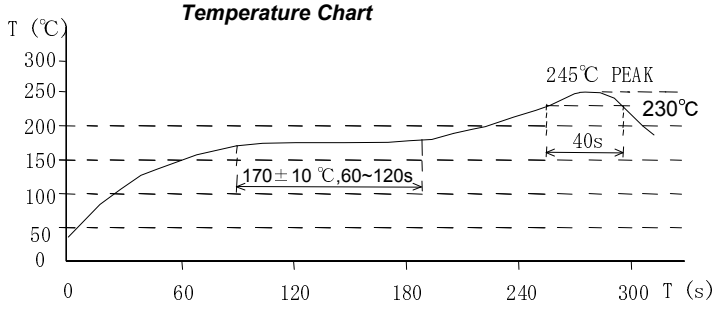


Solder Reflow Condition

Heat Endurance



Temperature Chart



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