THE DATASHEET OF

0518CDMCCDS-4R7MC

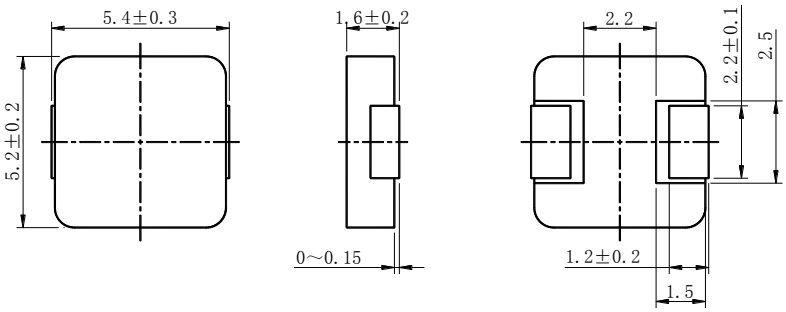
SMD Power Inductor
0518CDMCC/DS

RoHS

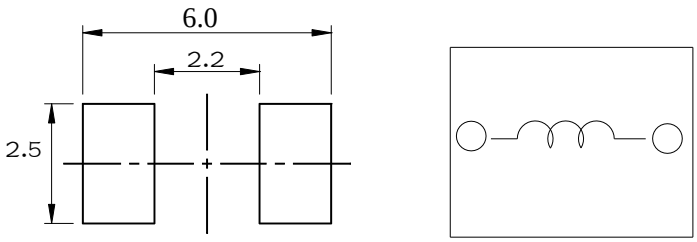
Halogen Free

Description
- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: 5.7 × 5.4 × 1.8 mm Max.
- Product weight:0.26g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range: -55℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -55℃～+125℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging.
- 2000pcs/Reel.

Applications
- Ideally used in notebook, ultrabook, tablet PC, LCD display, Server application.
- HDD,SSD modules application.
- High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

Revised: 27-Jun-19

Electrical Characteristics

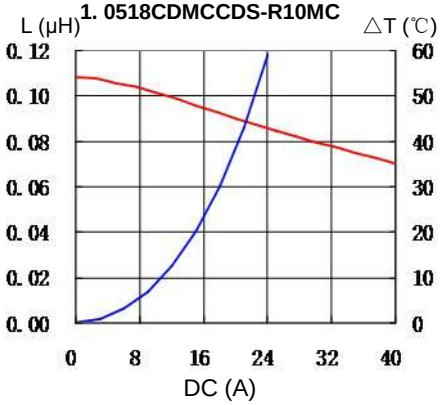
No.	品 名	表示	インダクタンス (μH) [以内] ※1	D.C.R (mΩ) (at 25℃) Max.(Typ.)	直流重畳電流 (A)※2 Max.(Typ.) (at 25℃)	温度上昇電流 (A)※3 Typ.
01	0518CDMCCDS-R10MC	R10	0.10±20%	3.1(2.6)	25.0(29.5)	20.0
02	0518CDMCCDS-R12MC	R12	0.12±20%	2.6(2.2)	24.5(29.0)	21.0
03	0518CDMCCDS-R15MC	R15	0.15±20%	3.6(3.0)	24.0(28.5)	19.0
04	0518CDMCCDS-R22MC	R22	0.22±20%	4.8(4.0)	17.0(20.0)	16.0
05	0518CDMCCDS-R33MC	R33	0.33±20%	6.5(5.5)	16.0(19.0)	14.5
06	0518CDMCCDS-R47MC	R47	0.47±20%	9.0(7.7)	12.8(15.0)	10.5
07	0518CDMCCDS-R56MC	R56	0.56±20%	10.0(8.0)	12.5(14.7)	10.0
08	0518CDMCCDS-R68MC	R68	0.68±20%	12.1(10.5)	11.5(13.5)	9.5
09	0518CDMCCDS-1R0MC	1R0	1.0±20%	17(15)	11.1(13.1)	7.5
10	0518CDMCCDS-1R5MC	1R5	1.5±20%	26(21)	9.0(10.6)	6.6
11	0518CDMCCDS-2R2MC	2R2	2.2±20%	35(30)	6.0(7.1)	5.2
12	0518CDMCCDS-3R3MC	3R3	3.3±20%	58(52)	5.4(6.3)	4.2
13	0518CDMCCDS-4R7MC	4R7	4.7±20%	85(78)	4.4(5.1)	3.2
14	0518CDMCCDS-5R6MC	5R6	5.6±20%	95(86)	4.1(4.8)	2.8
15	0518CDMCCDS-6R8MC	6R8	6.8±20%	120(107)	3.6(4.3)	2.4
16	0518CDMCCDS-100MC	100	10±20%	155(140)	3.0(3.5)	2.3
17	0518CDMCCDS-150MC	150	15±20%	260(240)	1.7(2.0)	1.8

※1 Measuring frequency Inductance at 100kHz ,1.0V
※2 Saturation current: The value of DC current when the inductance is over 70% of its initial value. (at 25℃)
※3 Temperature rise current: The actual value of DC current when temperature of coil rise is △T=40℃(Ta=25℃). Board conditions: FR4, Copper=70μm,four-layer PWB, t=1.6mm.

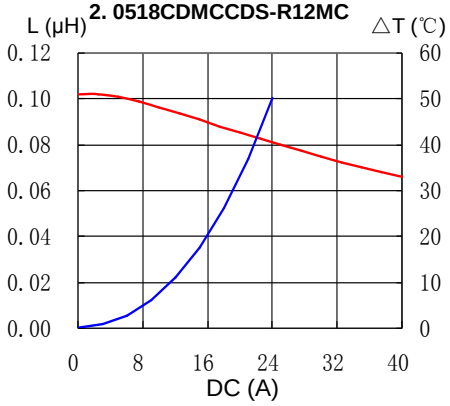
Saturation Current & Temperature Rise Graph

L (20℃) △T

1. 0518CDMCCDS-R10MC



2. 0518CDMCCDS-R12MC



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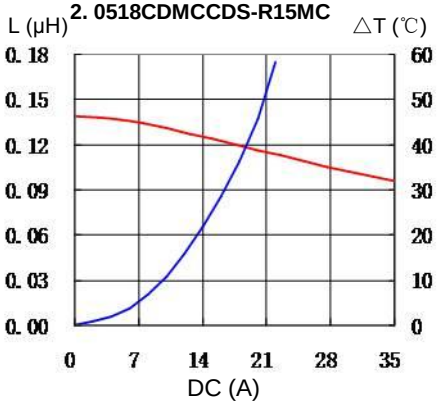
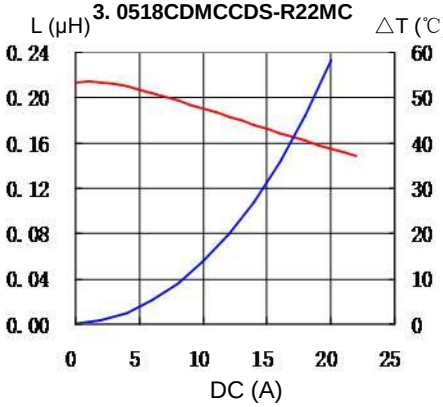
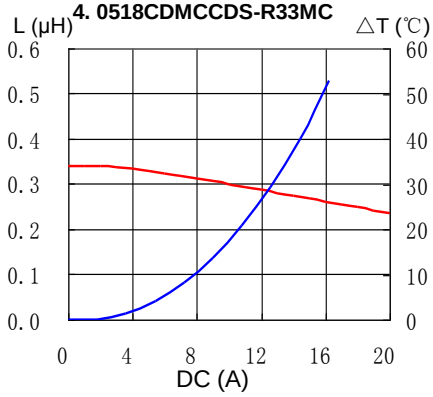


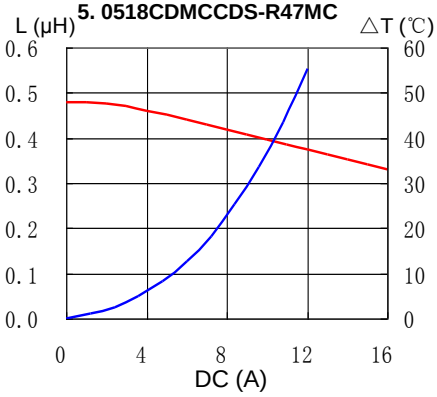
3. 0518CDMCCDS-R22MC



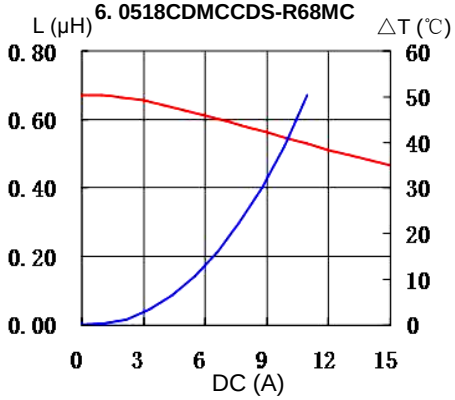
4. 0518CDMCCDS-R33MC



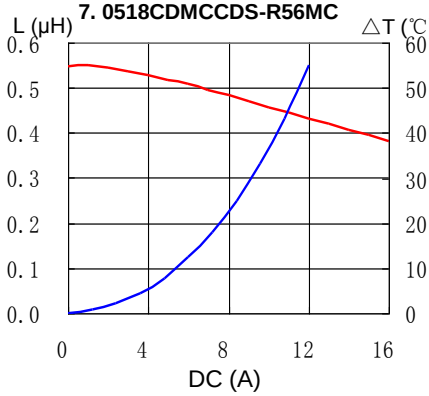
5. 0518CDMCCDS-R47MC



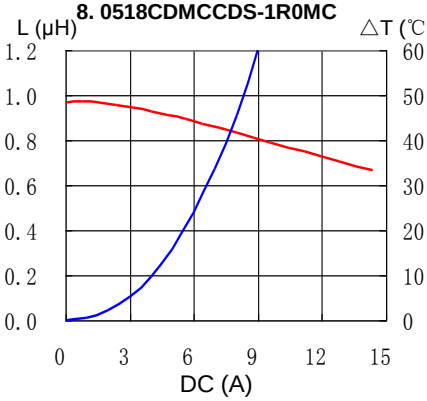
6. 0518CDMCCDS-R68MC



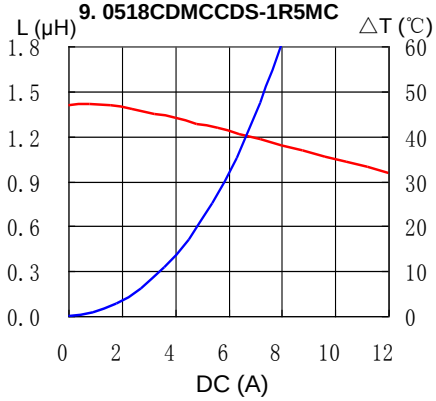
7. 0518CDMCCDS-R56MC



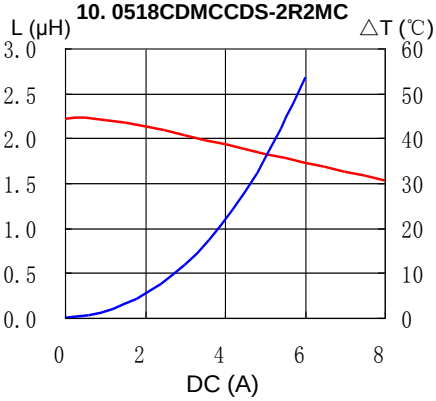
8. 0518CDMCCDS-1R0MC



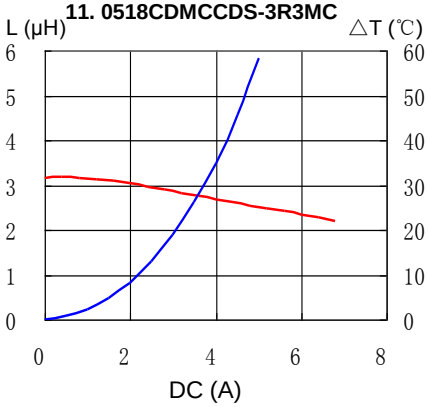
9. 0518CDMCCDS-1R5MC



10. 0518CDMCCDS-2R2MC



11. 0518CDMCCDS-3R3MC



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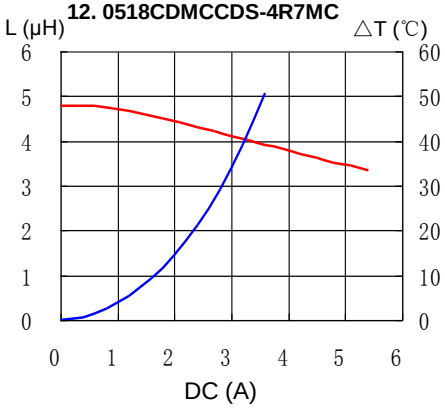
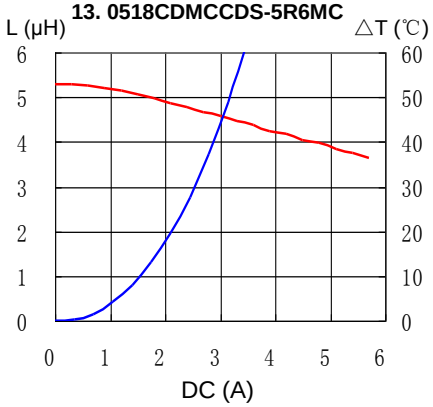
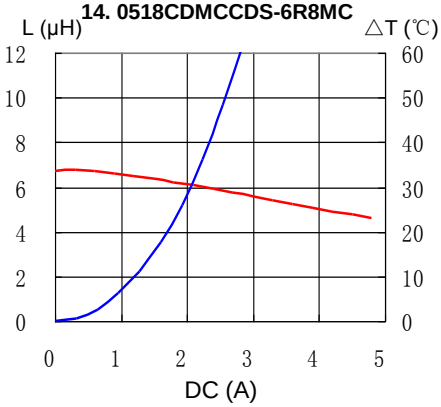


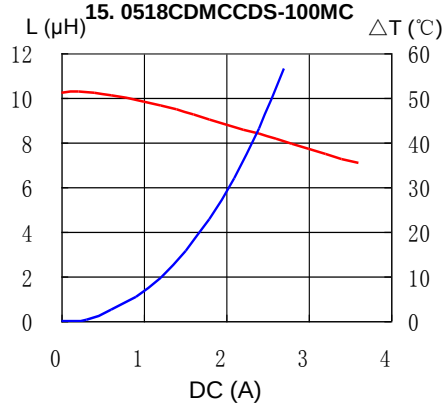
13. 0518CDMCCDS-5R6MC



14. 0518CDMCCDS-6R8MC



15. 0518CDMCCDS-100MC



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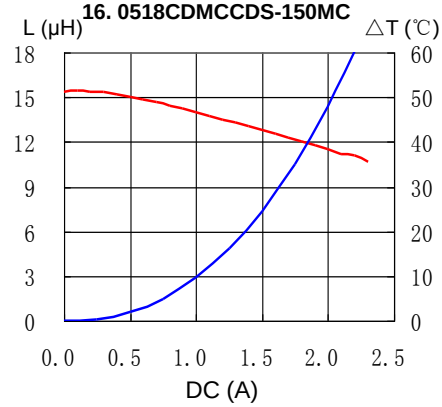
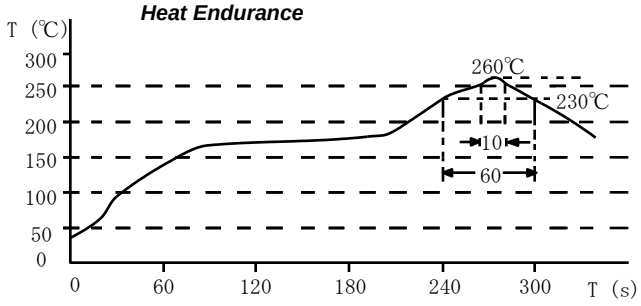
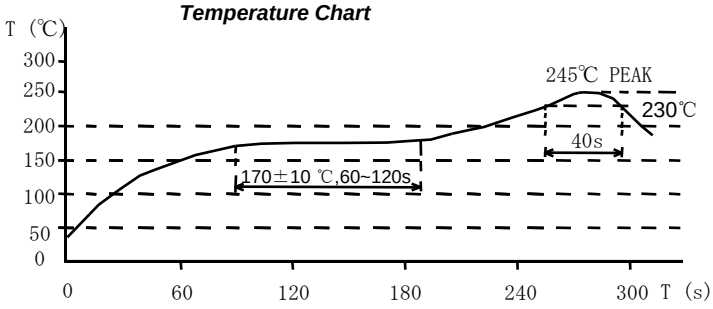


Solder Reflow Condition

Heat Endurance



Temperature Chart



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