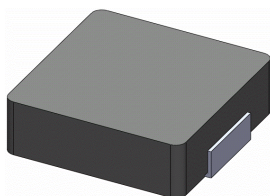


SMD Power Inductor 0518CDMCC/DS



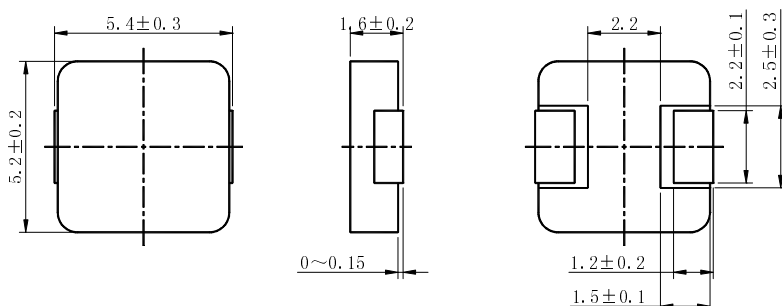
Halogen
Free



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]



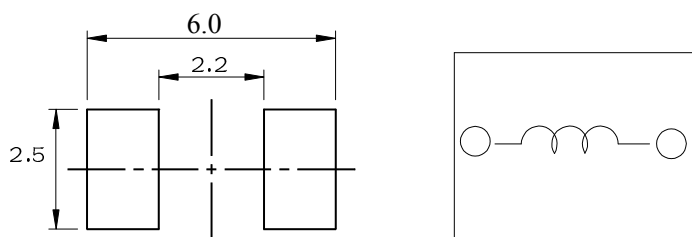
Environmental Data

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

Packaging

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

Land pattern and Schematics - [mm]



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.

SMD Power Inductor 0518CDMCC/DS



Electrical Characteristics

Part No.	Stamp	Inductance [Within](μ H) ※1	D.C.R (m Ω) at 25°C Max.(typ.)	Saturation Current (A)※2 Max.(Typ.)	Temperature rise current (A)※3 (Typ.)
0518CDMCCDS-R33MC	R33	0.33 $\pm$ 20%	6.5(5.5)	16.0(19.0)	14.5
0518CDMCCDS-R47MC	R47	0.47 $\pm$ 20%	9.0(7.7)	12.8(15.0)	10.5
0518CDMCCDS-R56MC	R56	0.56 $\pm$ 20%	10.0(8.0)	12.5(14.7)	10.0
0518CDMCCDS-1R0MC	1R0	1.0 $\pm$ 20%	17(15)	11.1(13.1)	7.5
0518CDMCCDS-1R5MC	1R5	1.5 $\pm$ 20%	26(21)	9.0(10.6)	6.6
0518CDMCCDS-2R2MC	2R2	2.2 $\pm$ 20%	35(30)	6.0(7.1)	5.2
0518CDMCCDS-3R3MC	3R3	3.3 $\pm$ 20%	58(52)	5.4(6.3)	4.2
0518CDMCCDS-4R7MC	4R7	4.7 $\pm$ 20%	85(78)	4.4(5.1)	3.2
0518CDMCCDS-5R6MC	5R6	5.6 $\pm$ 20%	95(86)	4.1(4.8)	2.8
0518CDMCCDS-6R8MC	6R8	6.8 $\pm$ 20%	120(107)	3.6(4.3)	2.4
0518CDMCCDS-100MC	100	10 $\pm$ 20%	155(140)	3.0(3.5)	2.3
0518CDMCCDS-150MC	150	15 $\pm$ 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°C)

※3 Temperature rise current: The actual value of DC current when temperature of coil rise is

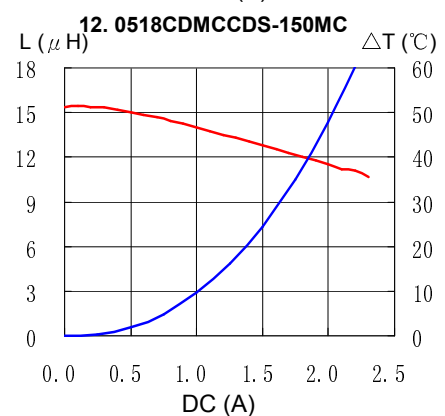
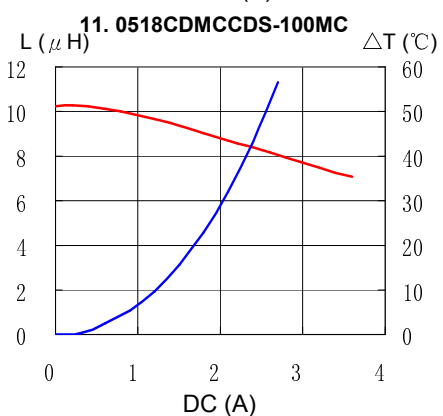
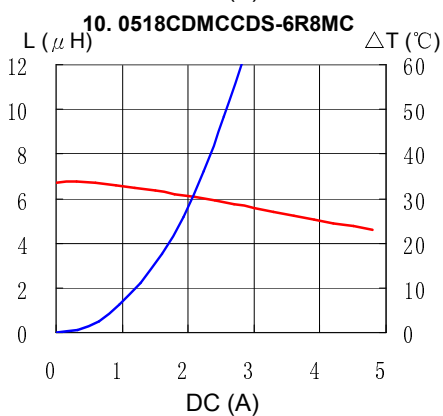
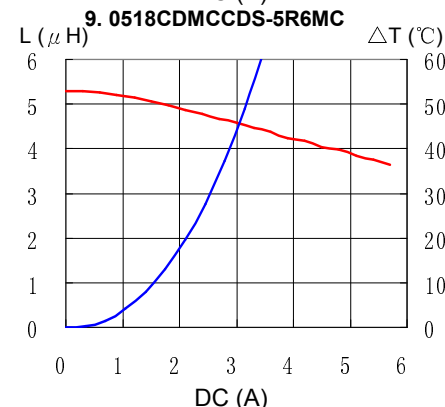
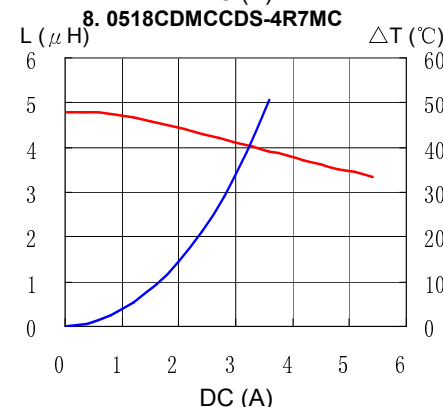
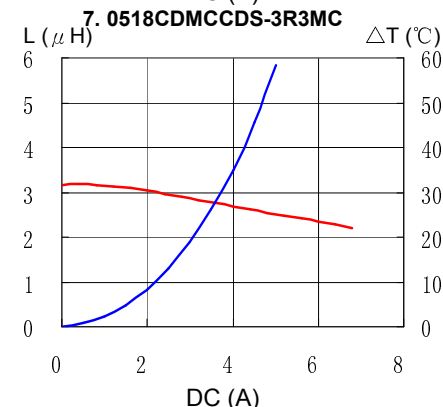
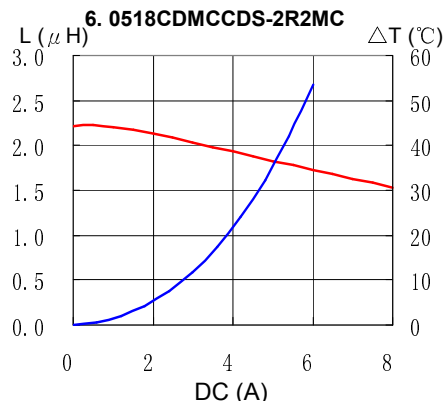
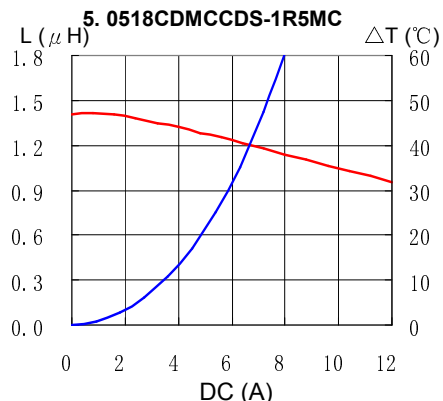
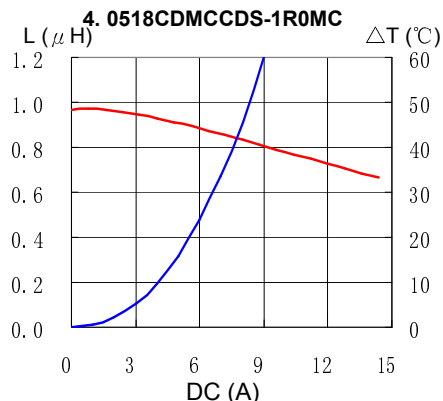
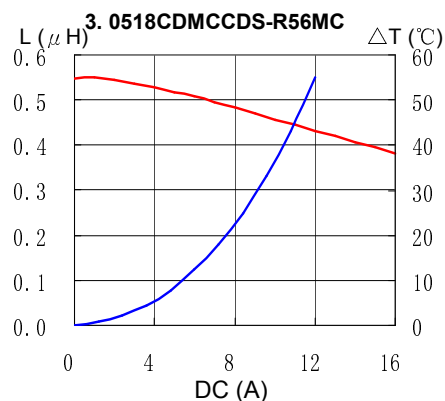
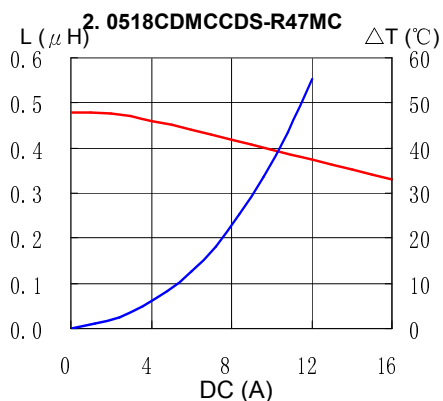
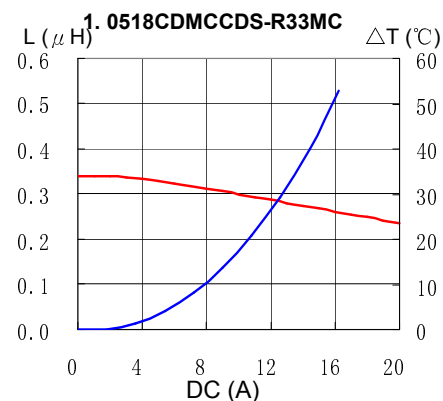
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$). Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

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Saturation Current & Temperature Rise Graph

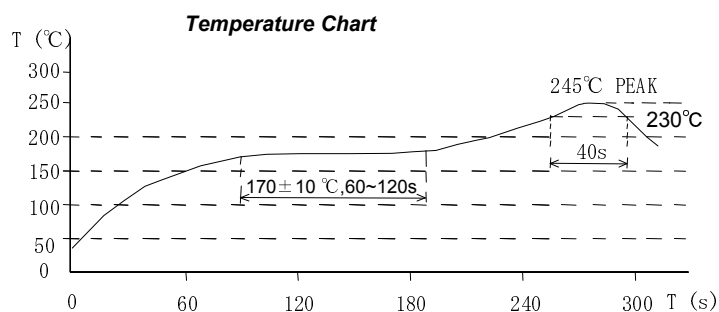
— L (20°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel. +852-2880-6781
FAX. +852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel. +81-48-691-7300
FAX. +81-48-691-7340
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-21-5836-3299
FAX. +86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel. +82-2-6237-0777
FAX. +82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel. +49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel. +886-2-8751-2737
FAX. +886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel. +1-408-321-9660
FAX. +1-408-321-9308
sales@us.sumida.com