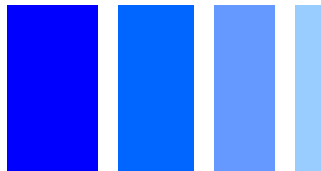
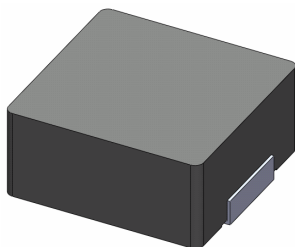


SMD Power Inductor 0630CDMCD/DS

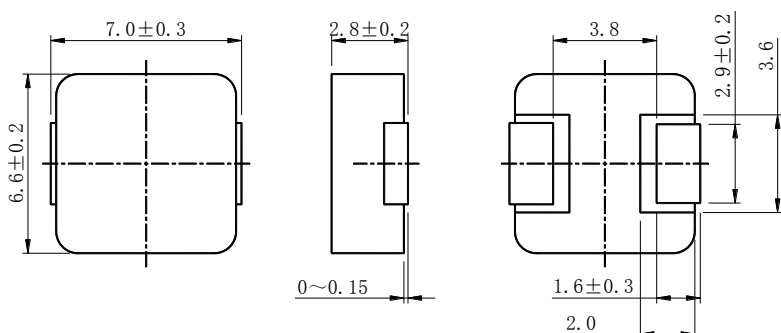


RoHS

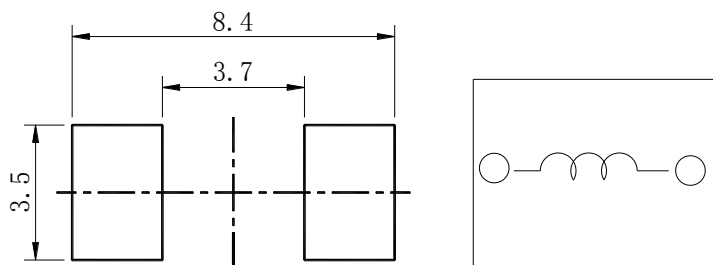
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Carbonyl powder compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: $7.3 \times 6.8 \times 3.0$ mm Max.
- Product weight: 0.73g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

- Carrier tape and reel packaging.
- 1500pcs/Reel.

Applications

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



Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H) ※1	D.C.R (m Ω) Max.(Typ.) at 25℃	Saturation Current (A) Max.(Typ.) (at 25℃) ※2	Temperature rise current (A) (Typ.) ※3
0630CDMCDDS-R10MC	R10	0.10 $\pm$ 20%	1.7(1.5)	52.5(61.8)	32.5
0630CDMCDDS-R20MC	R20	0.20 $\pm$ 20%	3.0(2.4)	41.0(51.0)	24.0
0630CDMCDDS-R22MC	R22	0.22 $\pm$ 20%	3.2(2.5)	40.0(47.5)	23.0
0630CDMCDDS-R33MC	R33	0.33 $\pm$ 20%	3.9(3.5)	30.0(35.5)	20.0
0630CDMCDDS-R47MC	R47	0.47 $\pm$ 20%	4.2(4.0)	24.6(29.0)	19.5
0630CDMCDDS-R56MC	R56	0.56 $\pm$ 20%	5.0(4.7)	23.8(28.0)	18.8
0630CDMCDDS-R68MC	R68	0.68 $\pm$ 20%	5.5(5.0)	21.8(25.6)	18.0
0630CDMCDDS-R75MC	R75	0.75 $\pm$ 20%	6.2(5.4)	21.0(25.0)	17.5
0630CDMCDDS-R82MC	R82	0.82 $\pm$ 20%	8.0(6.7)	20.8(24.5)	16.0
0630CDMCDDS-1R0MC	1R0	1.0 $\pm$ 20%	10.0(9.0)	18.7(22.0)	13.0
0630CDMCDDS-1R2MC	1R2	1.2 $\pm$ 20%	12.0(10.0)	17.8(20.9)	12.5
0630CDMCDDS-1R5MC	1R5	1.5 $\pm$ 20%	15.0(14.0)	17.4(20.5)	10.2
0630CDMCDDS-2R0MC	2R0	2.0 $\pm$ 20%	18.0(16.0)	14.8(17.5)	9.5
0630CDMCDDS-2R2MC	2R2	2.2 $\pm$ 20%	20.0(18.0)	14.4(17.0)	9.2
0630CDMCDDS-2R5MC	2R5	2.5 $\pm$ 20%	22.0(20.0)	12.0(14.0)	7.8
0630CDMCDDS-3R3MC	3R3	3.3 $\pm$ 20%	30.0(28.0)	11.5(13.5)	6.3
0630CDMCDDS-4R7MC	4R7	4.7 $\pm$ 20%	40.0(37.0)	10.5(12.3)	5.5
0630CDMCDDS-6R8MC	6R8	6.8 $\pm$ 20%	60.0(54.0)	7.2(8.5)	4.8

※1 Measuring frequency Inductance at 100kHz ,1.0V

※2 Saturation current: The value of DC current when the inductance is over 80% of its initial value.

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

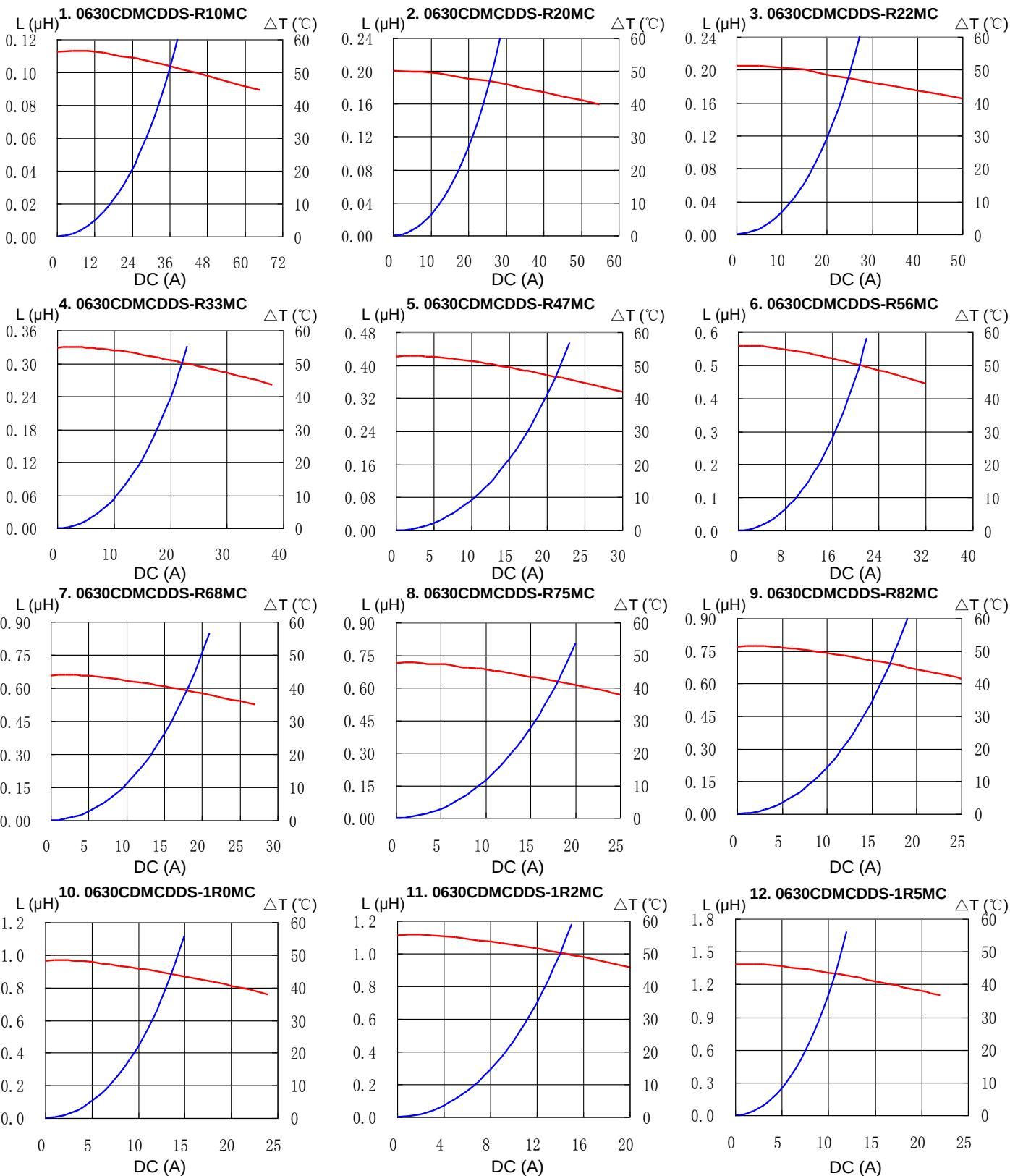
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μm , four-layer PWB, t=1.6mm.

SMD Power Inductor 0630CDMCD/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



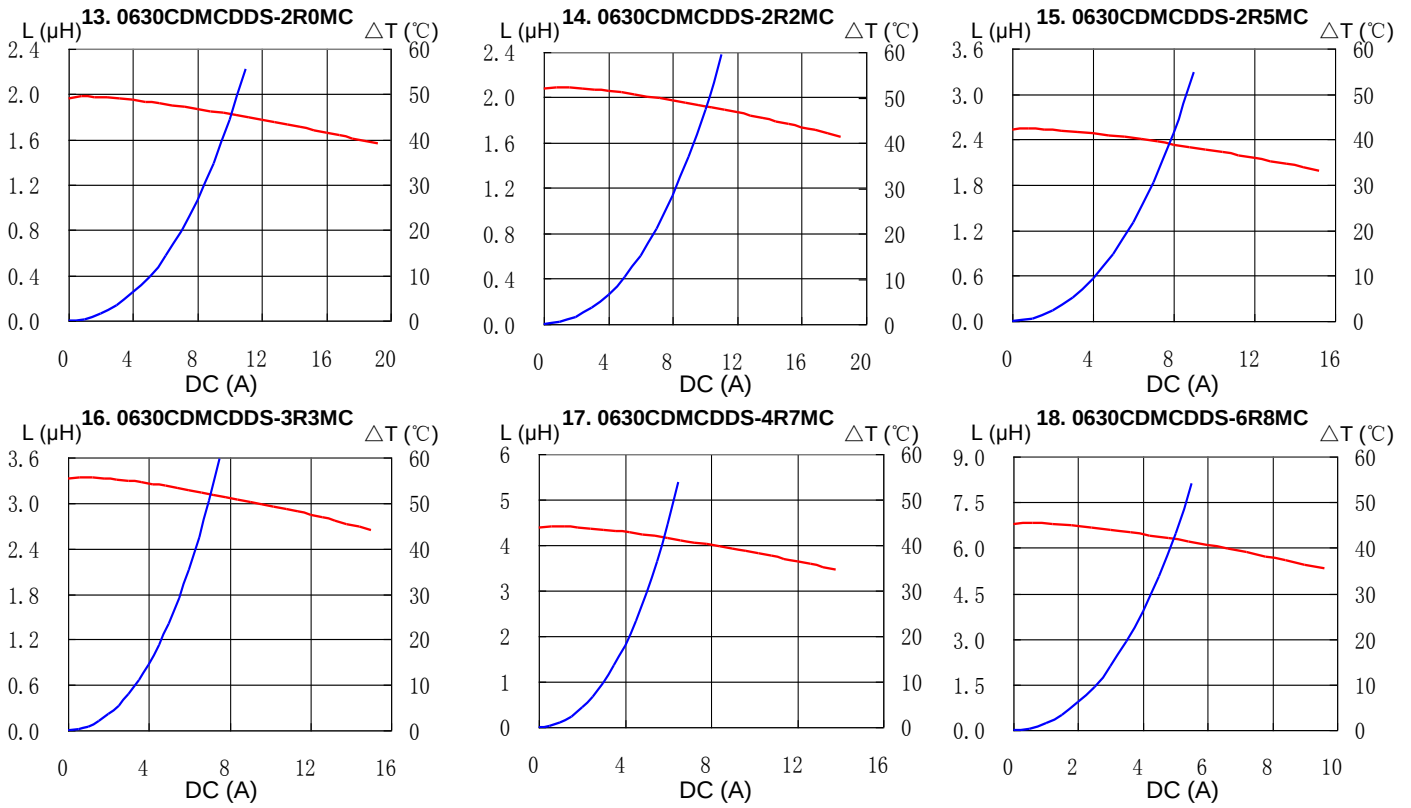
SMD Power Inductor

0630CDMCD/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

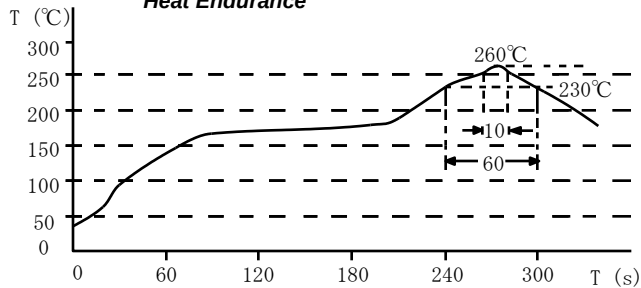


SMD Power Inductor 0630CDMCD/DS

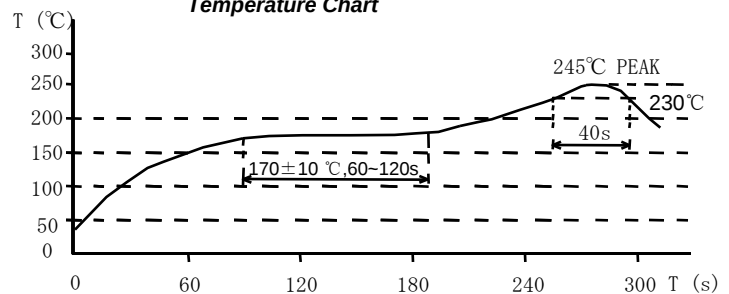


Solder Reflow Condition

Heat Endurance



Temperature Chart



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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