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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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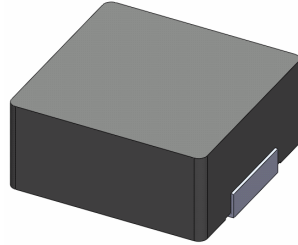
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor 0630CDMCD/DS



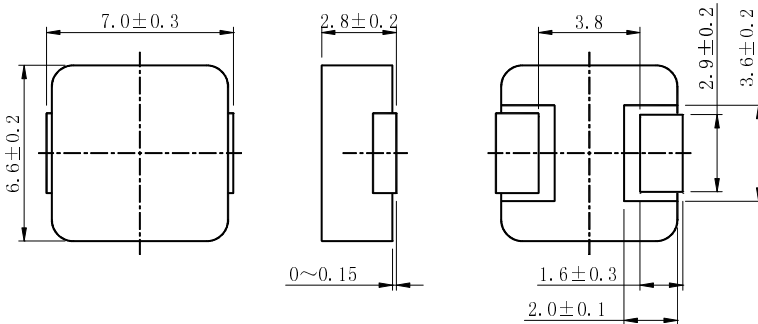
Halogen Free



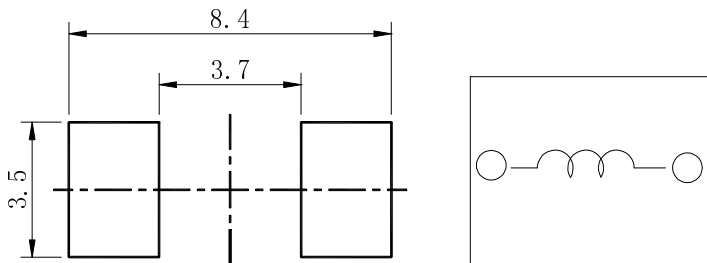
Description

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

Dimension - [mm]



Land pattern and Schematics - [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.

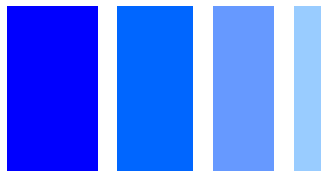
Packaging

- Carrier tape and reel packaging.
- 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.

SMD Power Inductor 0630CDMCD/DS



Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H) ※1	D.C.R (m Ω) Max.(Typ.) at 25°C	Saturation Current (A) Max.(Typ.) (at 25°C) ※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

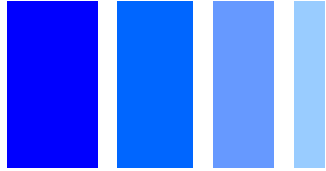
※1 Measuring frequency Inductance at 100kHz ,1.0V

※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

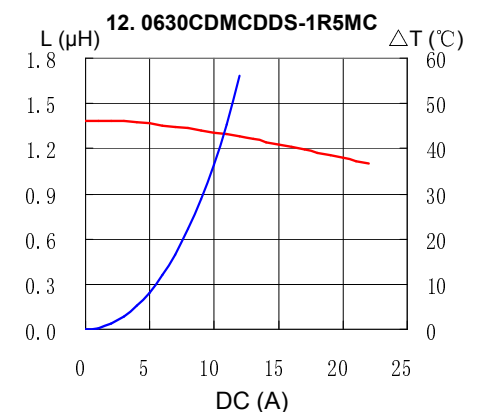
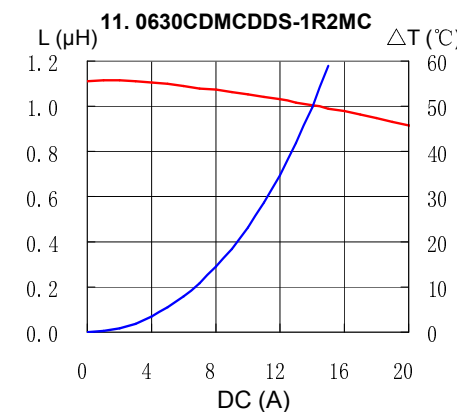
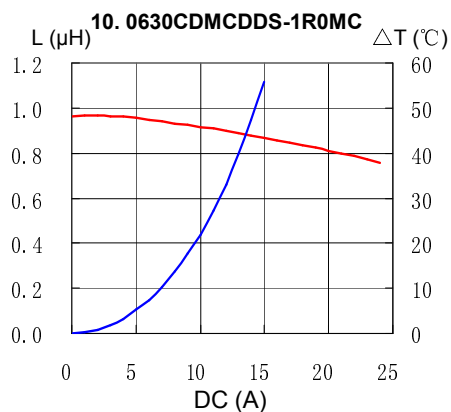
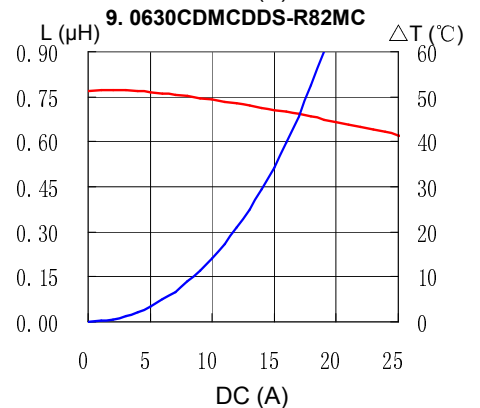
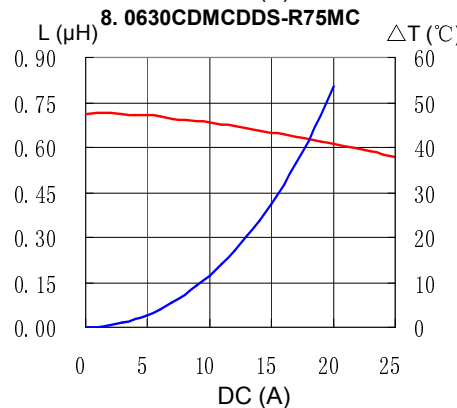
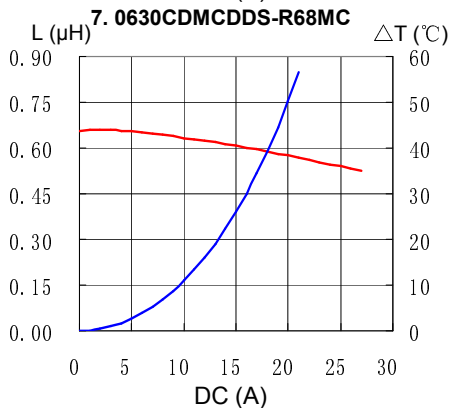
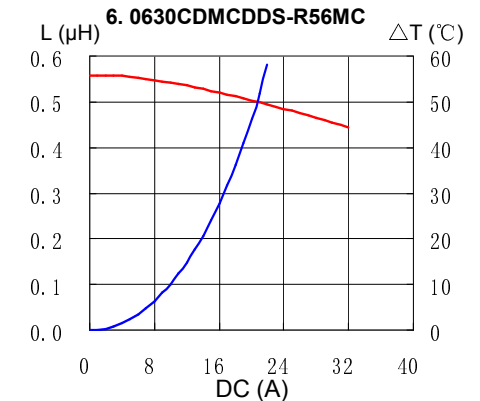
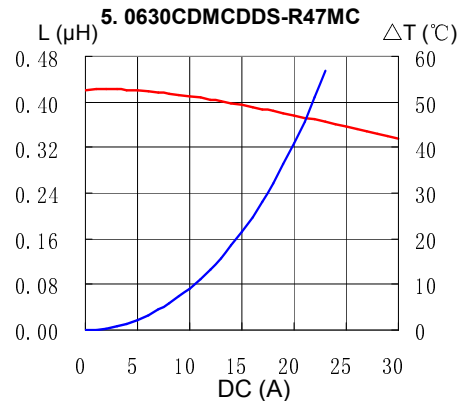
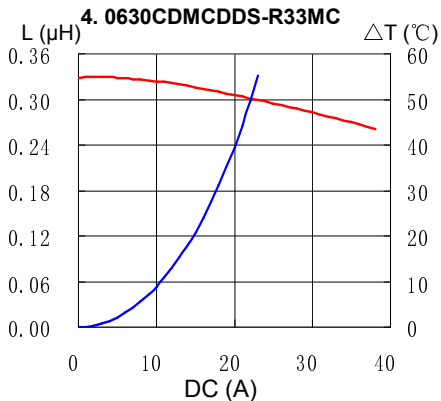
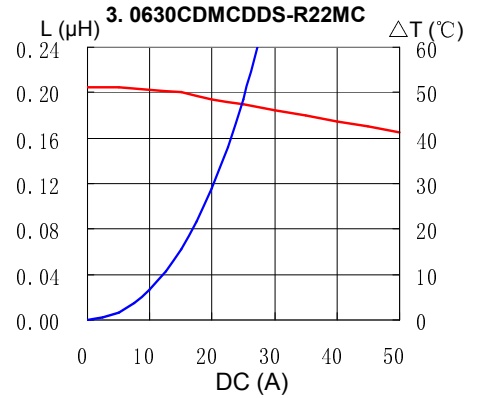
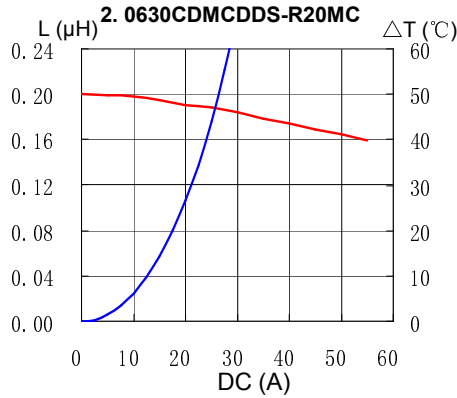
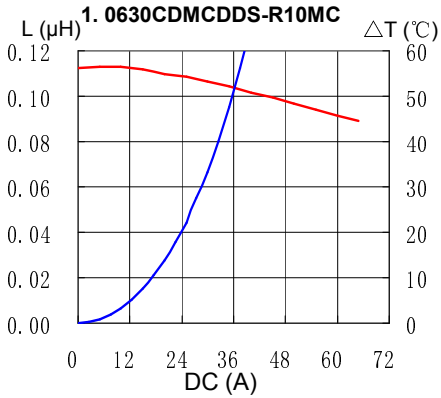
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μm , four-layer PWB, t=1.6mm.

SMD Power Inductor 0630CDMCD/DS

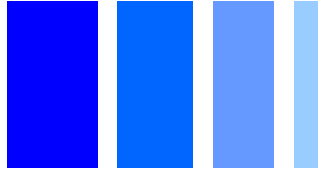


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

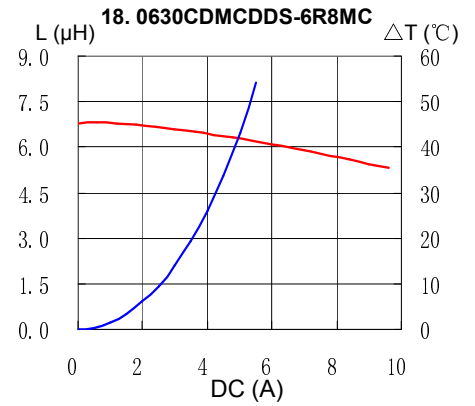
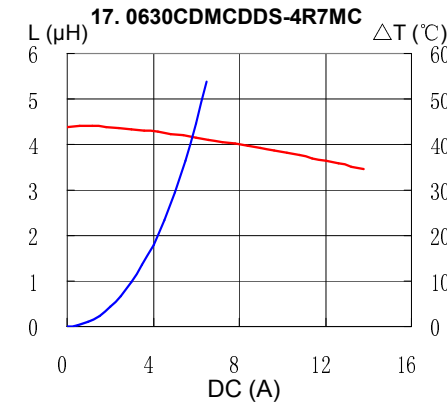
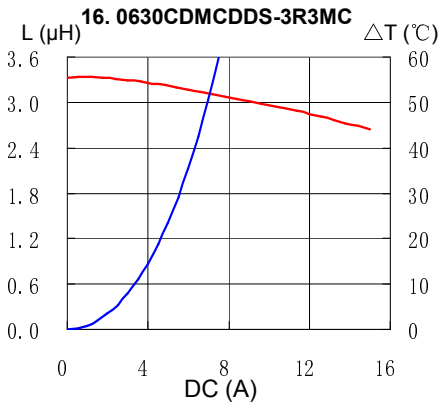
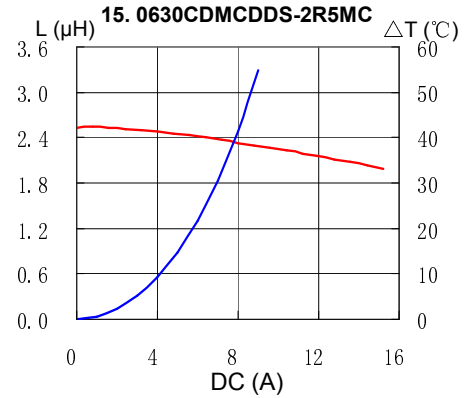
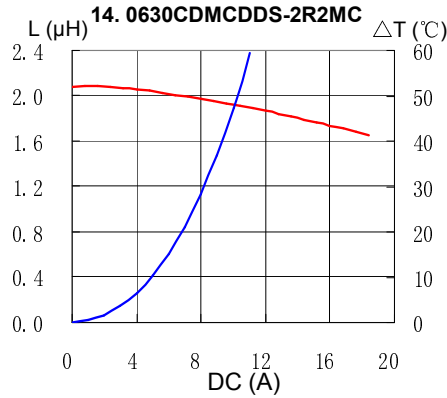
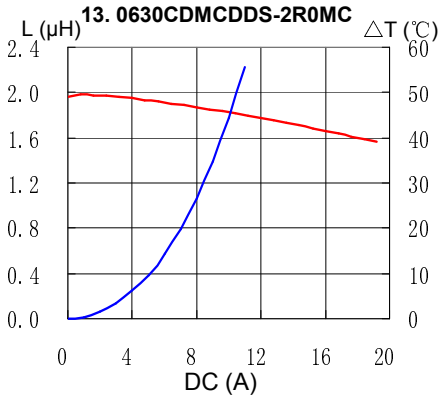


SMD Power Inductor 0630CDMCD/DS



Saturation Current & Temperature Rise Graph

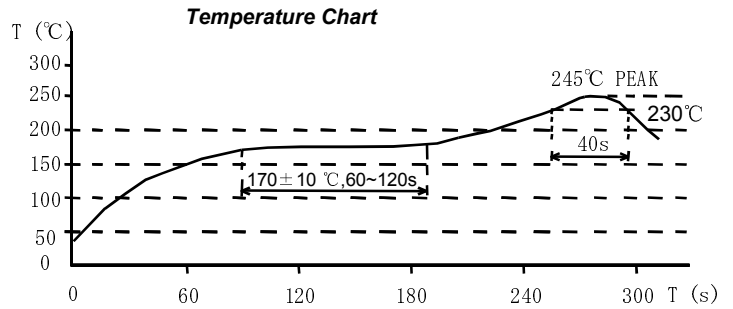
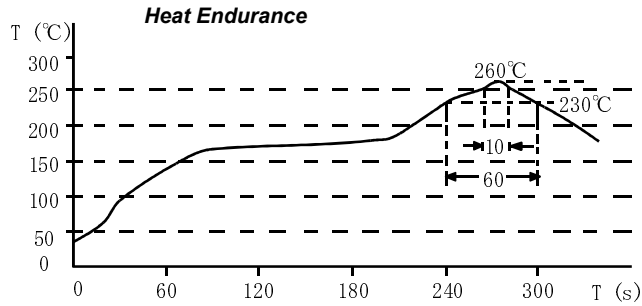
— L (20°C) — ΔT



SMD Power Inductor 0630CDMCD/DS



Solder Reflow Condition



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