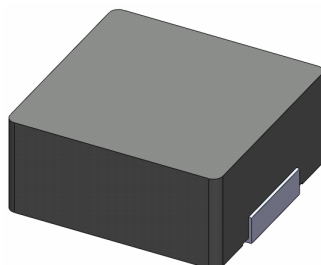


SMD Power Inductor 0630CDMCC/DS



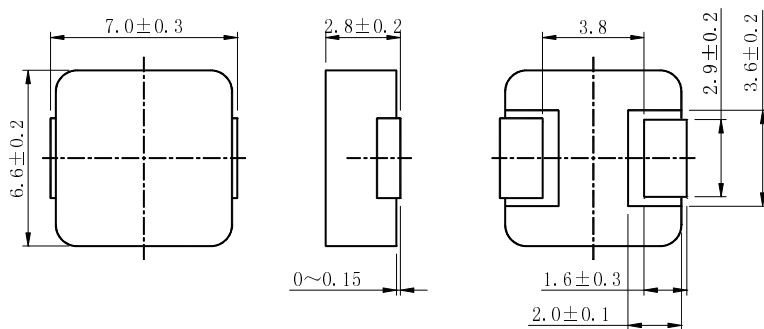
Halogen
Free



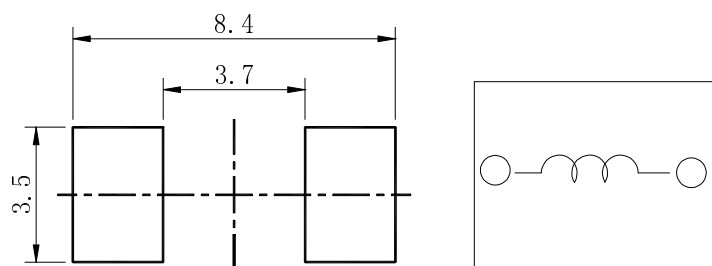
Description

- Metal 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: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (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.

SMD Power Inductor 0630CDMCC/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
0630CDMCCDS-R22MC	R22	0.22 $\pm$ 20%	3.0(2.5)	32.3(38.0)	24.0
0630CDMCCDS-R24MC	R24	0.24 $\pm$ 20%	3.1(2.6)	31.0(36.6)	23.0
0630CDMCCDS-R33MC	R33	0.33 $\pm$ 20%	3.5(3.0)	27.5(32.3)	21.0
0630CDMCCDS-R47MC	R47	0.47 $\pm$ 20%	4.1(3.5)	20.6(24.2)	20.0
0630CDMCCDS-R56MC	R56	0.56 $\pm$ 20%	4.5(3.9)	17.5(20.5)	18.8
0630CDMCCDS-R68MC	R68	0.68 $\pm$ 20%	5.3(4.8)	17.0(20.0)	16.5
0630CDMCCDS-R82MC	R82	0.82 $\pm$ 20%	6.0(5.4)	16.5(19.5)	14.8
0630CDMCCDS-1R0MC	1R0	1.0 $\pm$ 20%	7.4(6.7)	14.0(16.5)	14.4
0630CDMCCDS-1R5MC	1R5	1.5 $\pm$ 20%	12.1(10.6)	12.9(15.2)	10.2
0630CDMCCDS-2R2MC	2R2	2.2 $\pm$ 20%	15.0(13.5)	10.5(12.3)	9.3
0630CDMCCDS-3R3MC	3R3	3.3 $\pm$ 20%	22.0(18.0)	9.7(11.4)	8.4
0630CDMCCDS-4R7MC	4R7	4.7 $\pm$ 20%	33.0(28.0)	5.8(6.8)	6.3
0630CDMCCDS-6R8MC	6R8	6.8 $\pm$ 20%	48.0(42.5)	5.3(6.3)	5.0
0630CDMCCDS-8R2MC	8R2	8.2 $\pm$ 20%	60.0(54.0)	4.9(5.8)	4.3
0630CDMCCDS-100MC	100	10.0 $\pm$ 20%	67.0(62.0)	4.6(5.5)	4.0
0630CDMCCDS-150MC	150	15.0 $\pm$ 20%	115.0(104.0)	3.6(4.3)	3.3
0630CDMCCDS-220MC	220	22.0 $\pm$ 20%	200.0(180.0)	3.4(4.0)	2.3

※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.

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

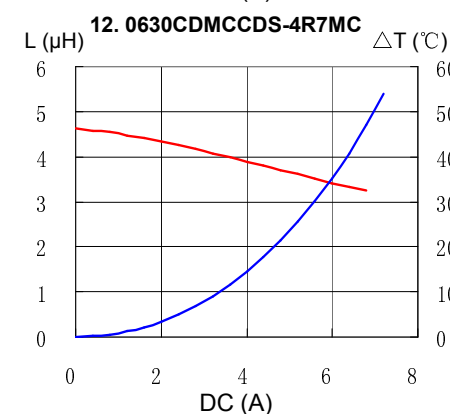
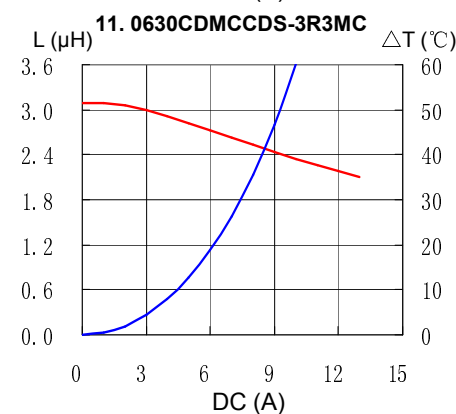
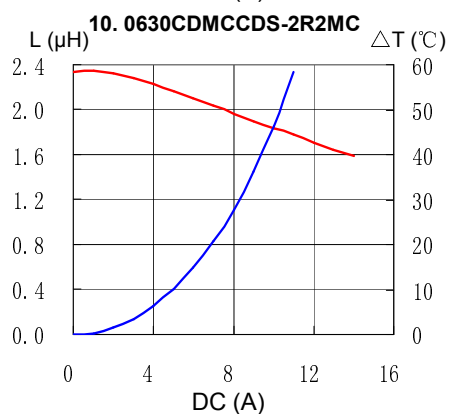
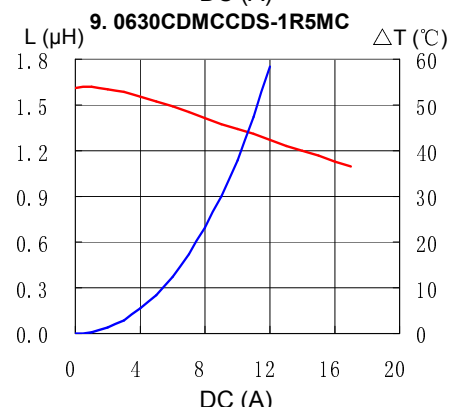
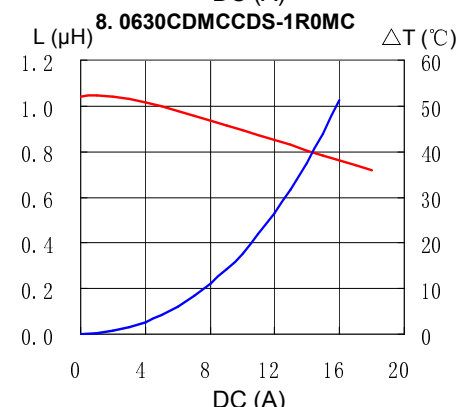
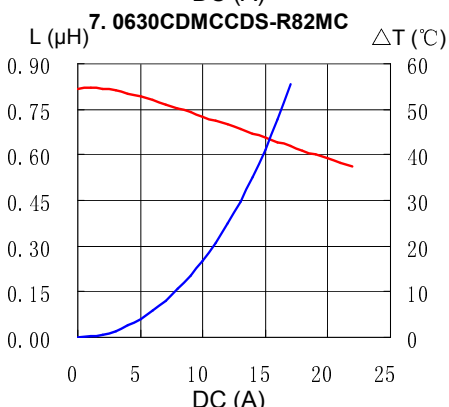
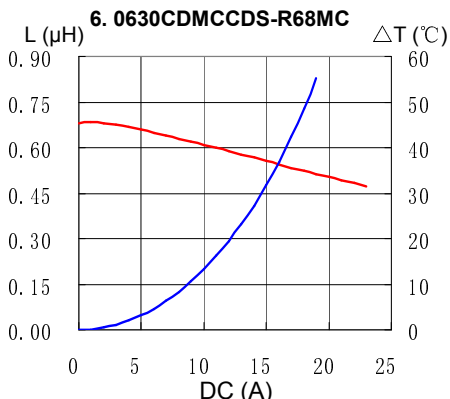
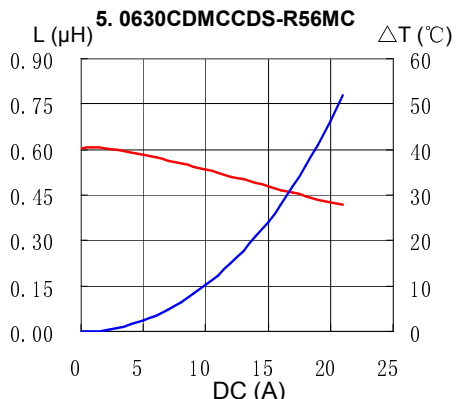
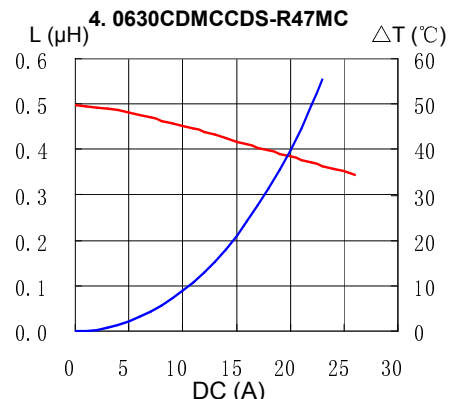
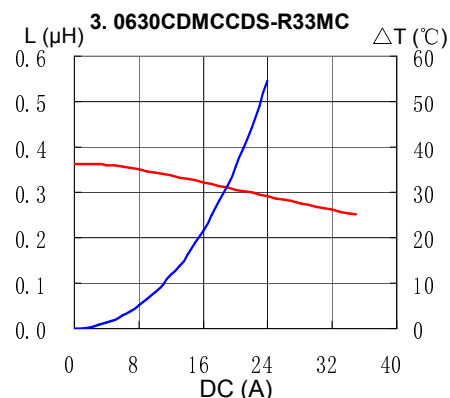
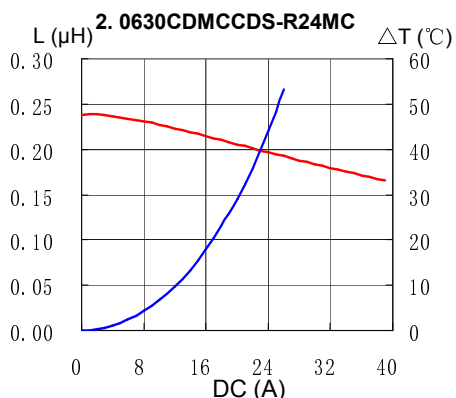
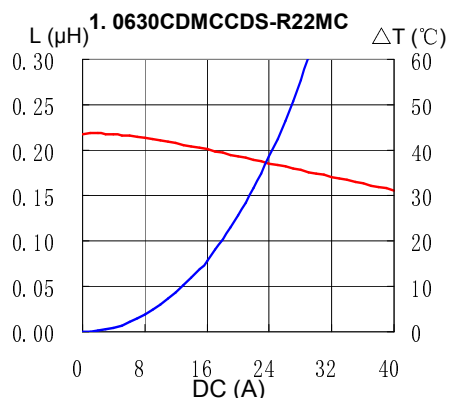
$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μm , four-layer PWB, $t=1.6\text{mm}$.

SMD Power Inductor 0630CDMCC/DS



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

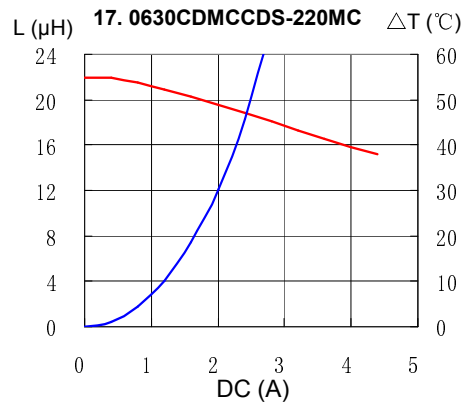
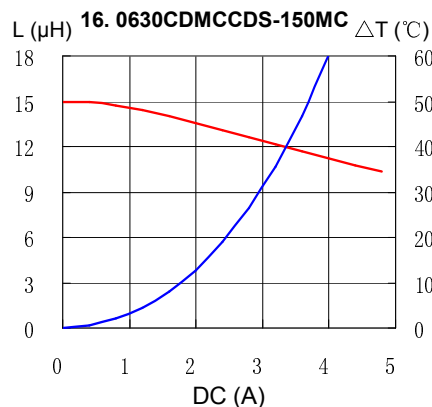
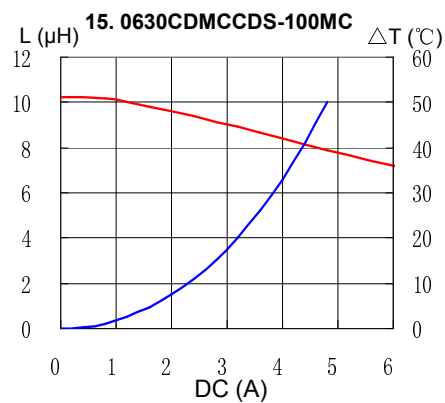
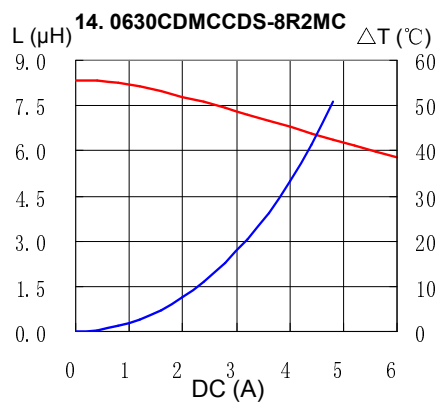
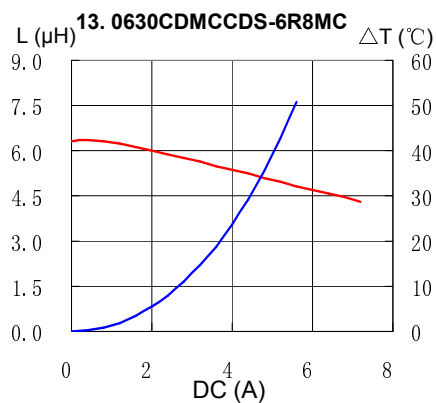


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Saturation Current & Temperature Rise Graph

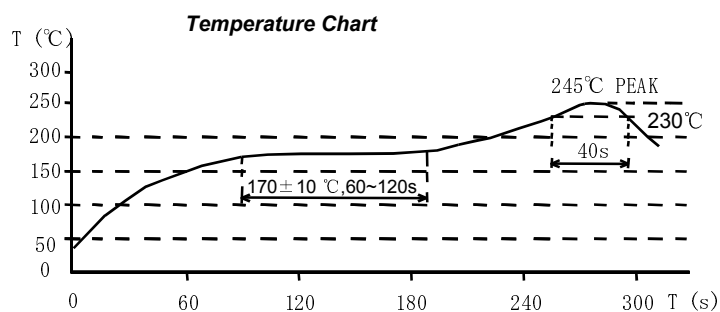
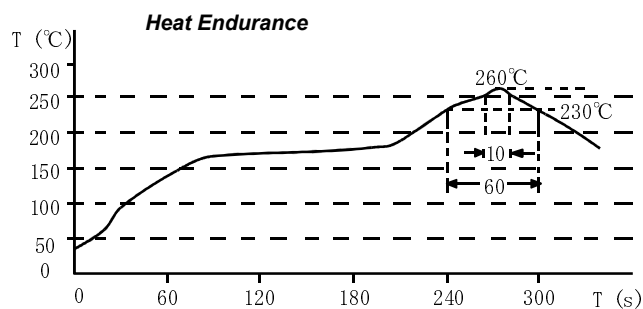
— L (20°C) — ΔT



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Solder Reflow Condition



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<u>0630CDMCCDS-6R8MC</u>	<u>0630CDMCCDS-R24MC</u>	<u>0630CDMCCDS-R82MC</u>	<u>0630CDMCDDS-4R7MC</u>
<u>0630CDMCDDS-2R0MC</u>	<u>0630CDMCCDS-R56MC</u>	<u>0630CDMCDDS-R68MC</u>	<u>0630CDMCCDS-1R5MC</u>
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<u>0630CDMCDDS-R10MC</u>	<u>0630CDMCDDS-2R2MC</u>	<u>0630CDMCCDS-150MC</u>	<u>0630CDMCDDS-R75MC</u>
<u>0630CDMCCDS-R68MC</u>	<u>0630CDMCDDS-1R5MC</u>	<u>0630CDMCCDS-100MC</u>	<u>0630CDMCDDS-R47MC</u>
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<u>0630CDMCCDS-3R3MC</u>	<u>0630CDMCDDS-6R8MC</u>	<u>0630CDMCCDS-220MC</u>	