

SMD Power Inductor

0630CDMCC/DS



Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- LxWxH: 7.3x6.8x3.0mm Max.
- Product weight:0.73g (Ref.)
- Moisture Sensitivity Level: 1



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.

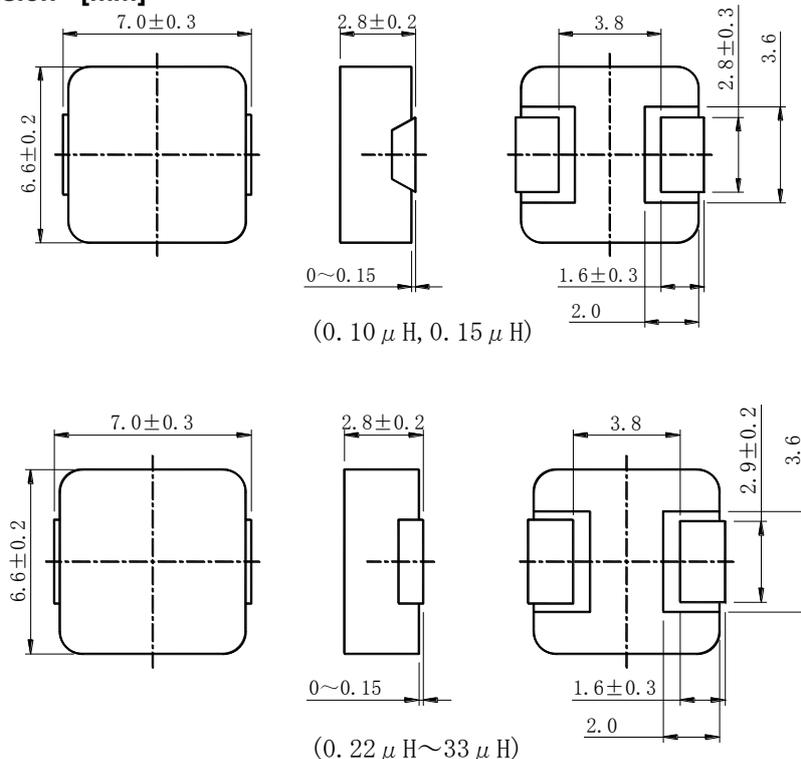
Packaging

- Carrier tape and reel packaging
- 1500pcs per 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.

Dimension - [mm]



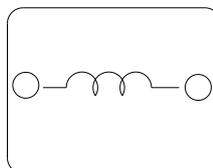
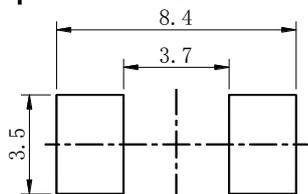
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Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance(μ H) [Within] ※1	D.C.R(m Ω) at 25°C Max.(Typ.)	Saturation Current(A) at 25°C※2 Max.(Typ.)	Temperature rise current (A)※3 Typ.
0630CDMCCDS-R10MC	R10	0.10 \pm 20%	1.08(0.90)	61.2(72.0)	40.0
0630CDMCCDS-R15MC	R15	0.15 \pm 20%	1.14(0.95)	34.4(40.5)	35.0
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-5R6MC	5R6	5.6 \pm 20%	43.0(37.0)	5.5(6.5)	5.2
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
0630CDMCCDS-330MC	330	33.0 \pm 20%	258.0(215.0)	2.3(2.7)	2.1

※1 Measuring frequency Inductance at 100kHz 1V

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}C$ ($T_a=25^{\circ}C$).(Test board condition: FR4, Copper=70 μ m, four-layer PWB t=1.6mm)

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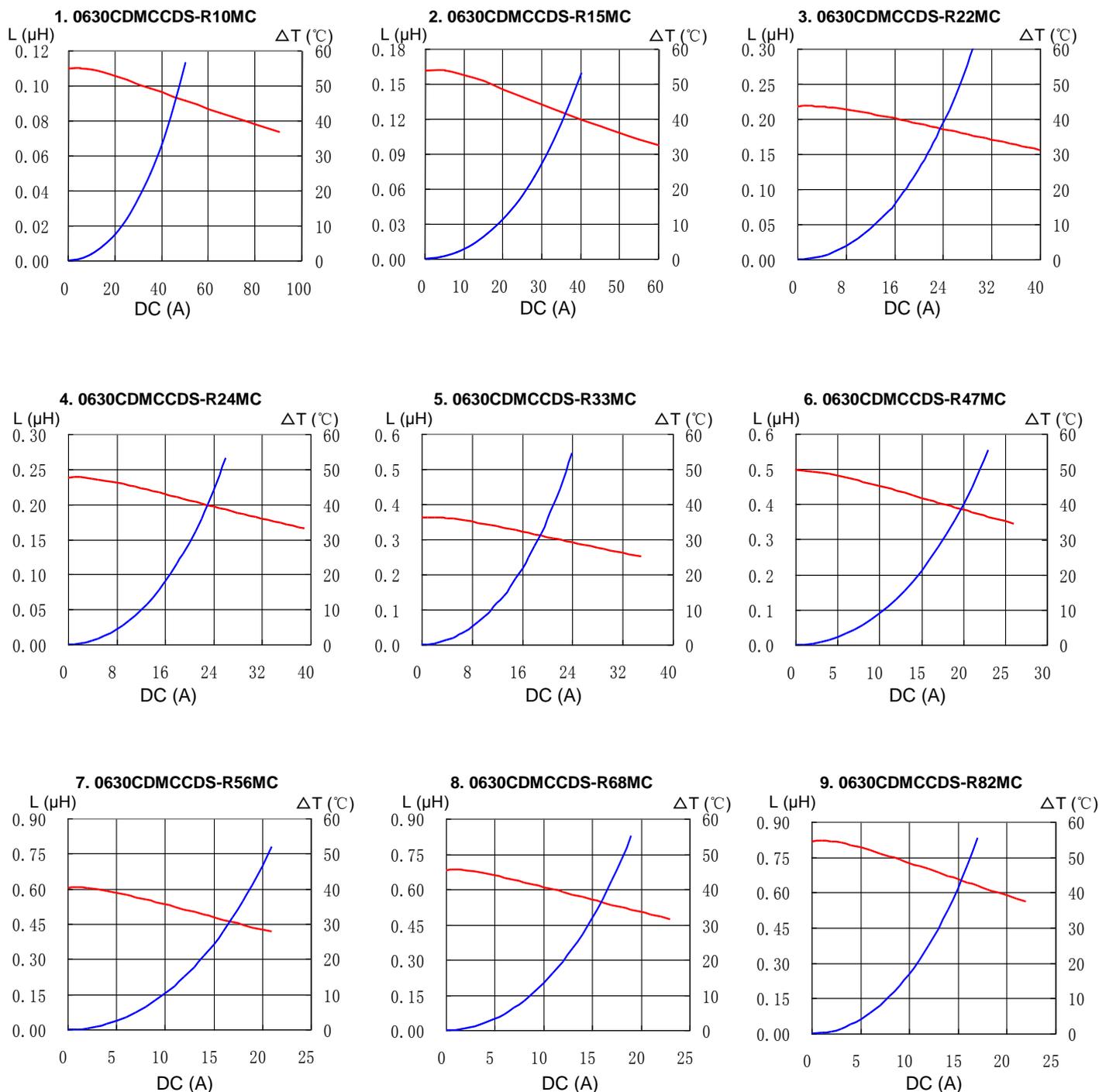
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Saturation Current & Temperature Rise

— L (20°C) — ΔT



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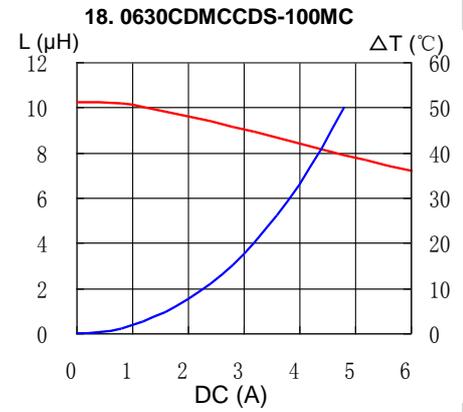
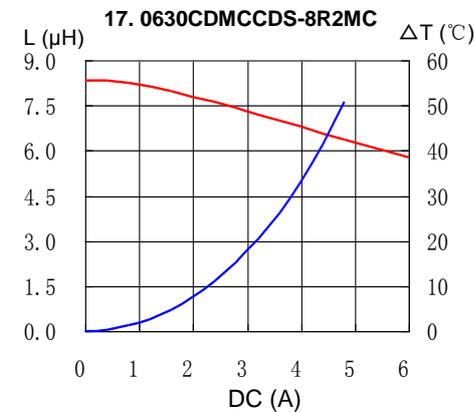
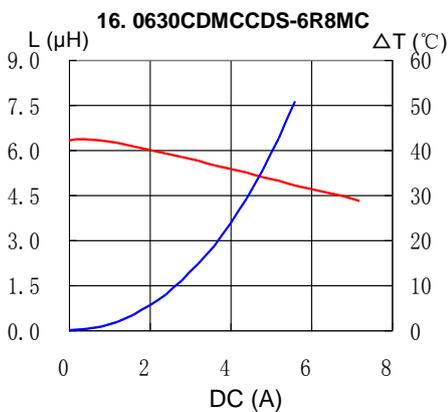
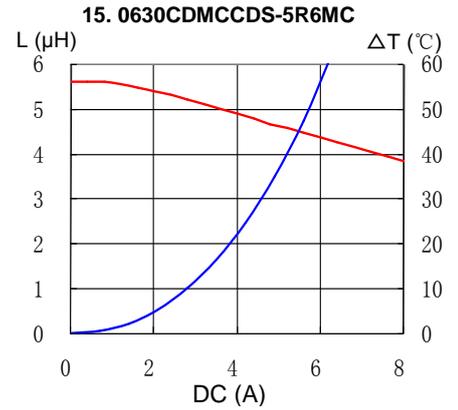
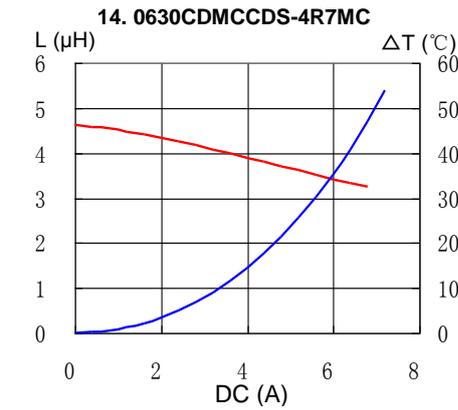
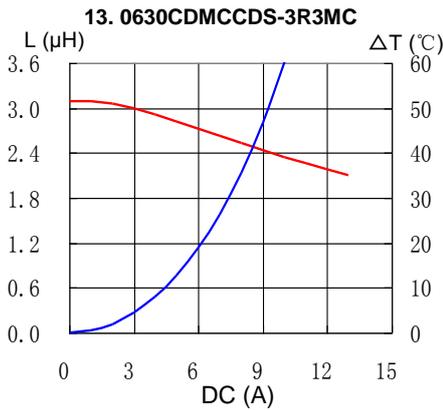
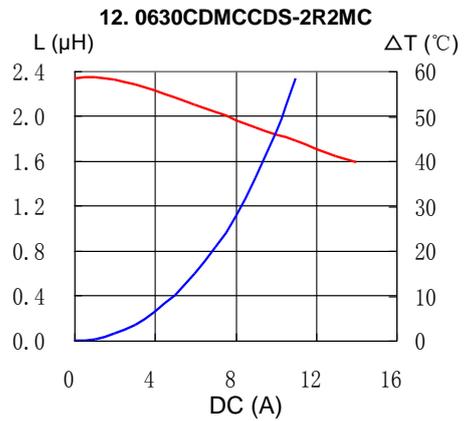
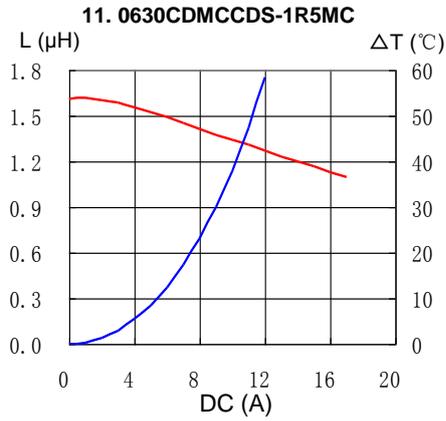
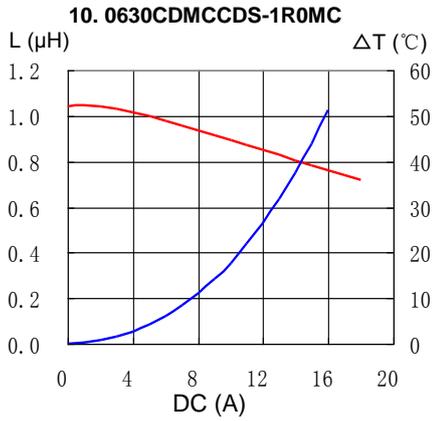
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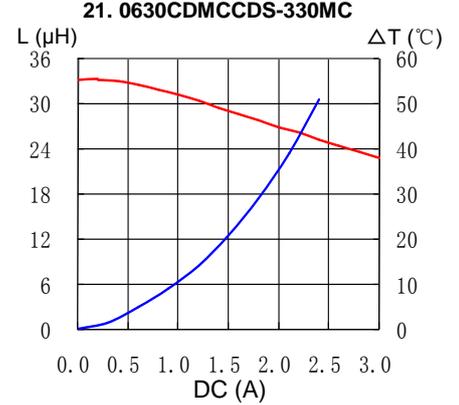
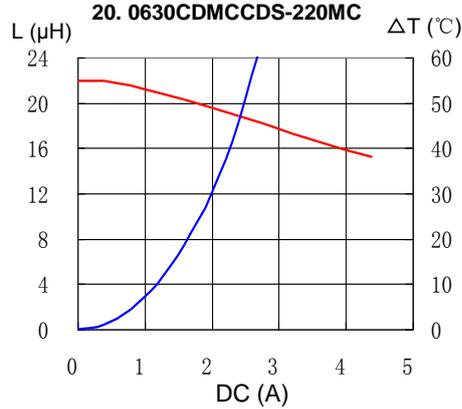
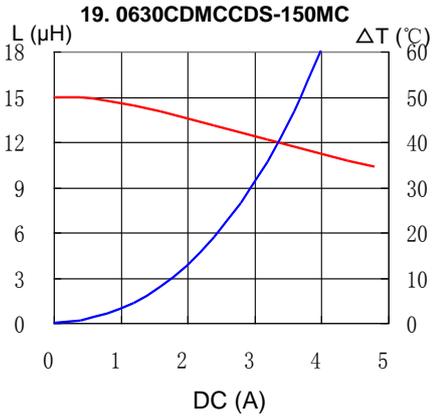
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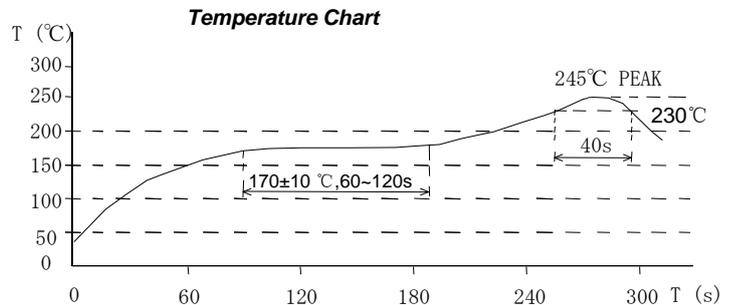
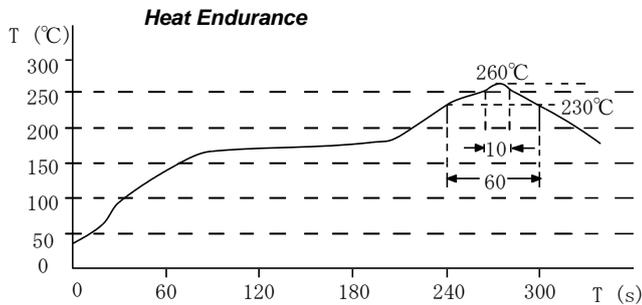


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— L (20°C) — ΔT



Solder Reflow Condition



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