

SMD Power Inductor CDR95



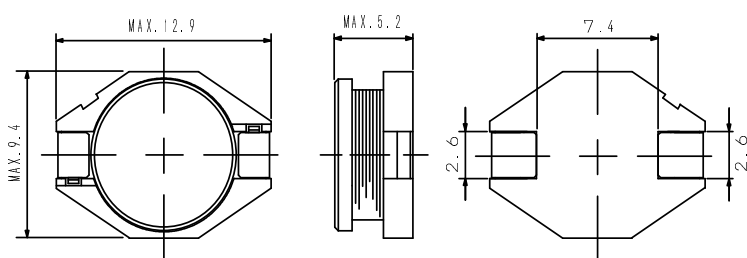
Halogen
Free



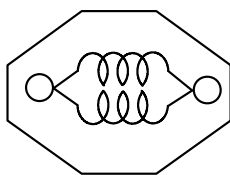
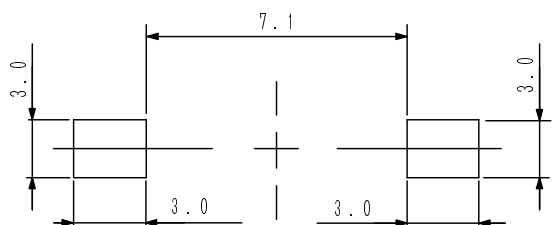
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 12.9 × 9.4 × 5.2 mm Max.
- Product weight: 0.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

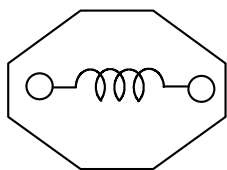
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.0 μ H ~ 22 μ H)



(33 μ H ~ 680 μ H)

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 500pcs per reel

Applications

- Ideally used in Notebook PC ,LCD TV ,Game machine ,HDD ,DSC/DVC , etc as DC-DC converter inductors.

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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDR95NP-1R0MC	1R0M	1.0 $\pm$ 20%	6.3(5.0)	14.6	9.0
CDR95NP-1R5MC	1R5M	1.5 $\pm$ 20%	8.2(6.5)	12.0	8.0
CDR95NP-2R2MC	2R2M	2.2 $\pm$ 20%	11.3(9.0)	9.4	7.0
CDR95NP-3R3MC	3R3M	3.3 $\pm$ 20%	12.5(10.0)	7.8	6.2
CDR95NP-4R7MC	4R7M	4.7 $\pm$ 20%	15.5(12.4)	6.4	5.8
CDR95NP-6R8MC	6R8M	6.8 $\pm$ 20%	23.0(18.3)	5.3	4.5
CDR95NP-100MC	100M	10 $\pm$ 20%	35.4(28.3)	4.0	3.5
CDR95NP-150MC	150M	15 $\pm$ 20%	46.8(37.4)	3.5	3.0
CDR95NP-220MC	220M	22 $\pm$ 20%	68.0(54.5)	3.0	2.5
CDR95NP-330MC	330M	33 $\pm$ 20%	102.0(81.4)	2.4	2.0
CDR95NP-470MC	470M	47 $\pm$ 20%	151.0(120.5)	2.0	1.5
CDR95NP-680MC	680M	68 $\pm$ 20%	208.0(166.3)	1.7	1.3
CDR95NP-101MC	101M	100 $\pm$ 20%	288.0(230.0)	1.4	1.1
CDR95NP-151MC	151M	150 $\pm$ 20%	454.0(363.0)	1.1	0.9
CDR95NP-221MC	221M	220 $\pm$ 20%	669.0(535.0)	0.9	0.7
CDR95NP-331MC	331M	330 $\pm$ 20%	1000.0(800.0)	0.8	0.55
CDR95NP-471MC	471M	470 $\pm$ 20%	1453.0(1162)	0.6	0.45
CDR95NP-681MC	681M	680 $\pm$ 20%	2363.0(1890)	0.5	0.35

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

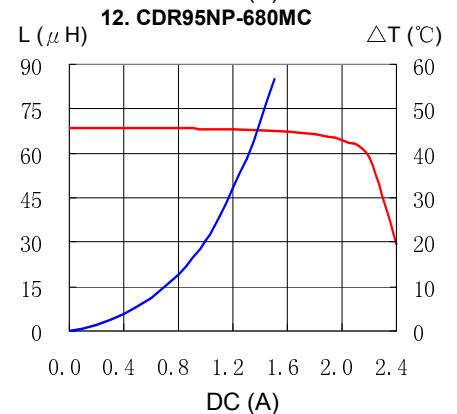
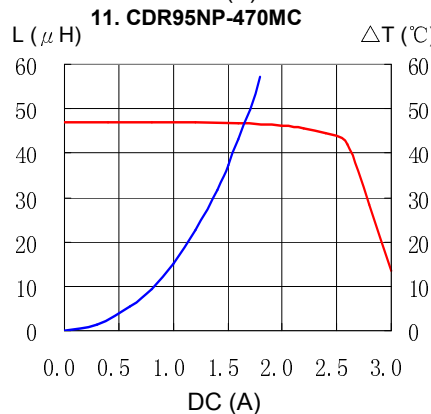
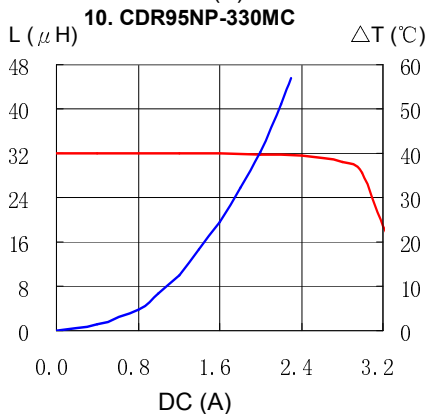
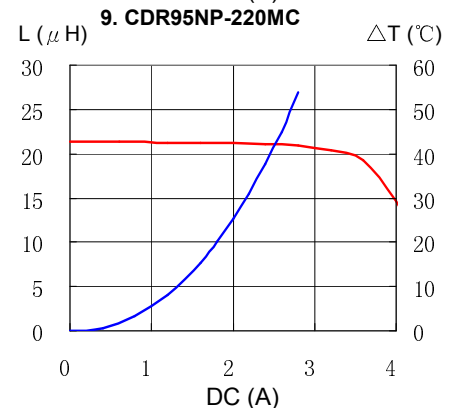
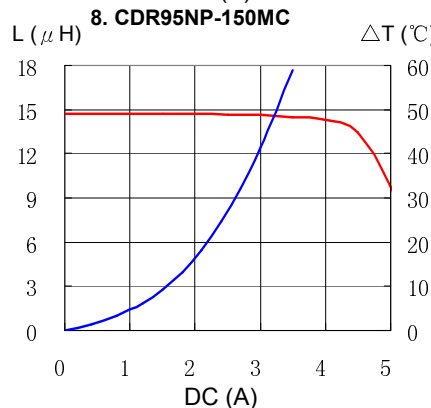
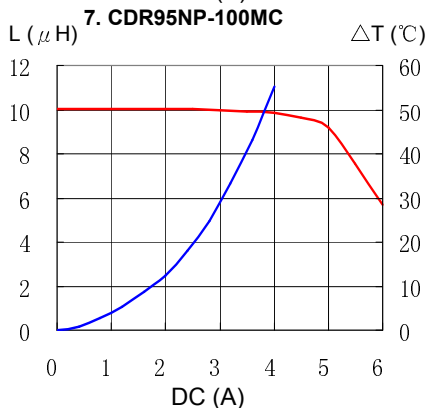
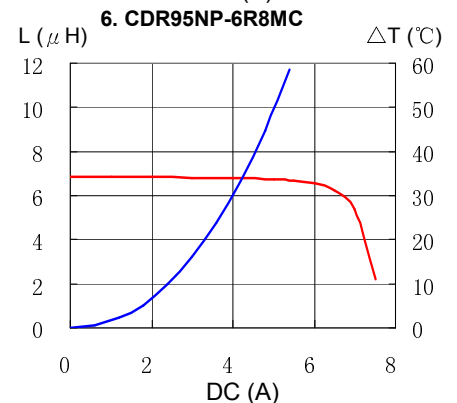
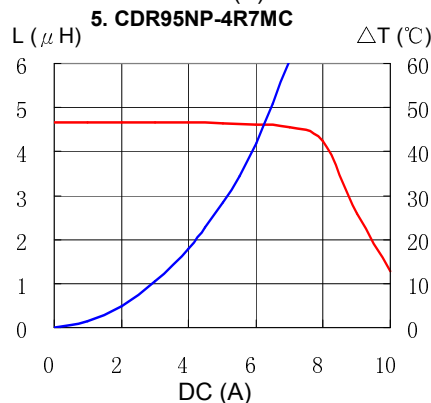
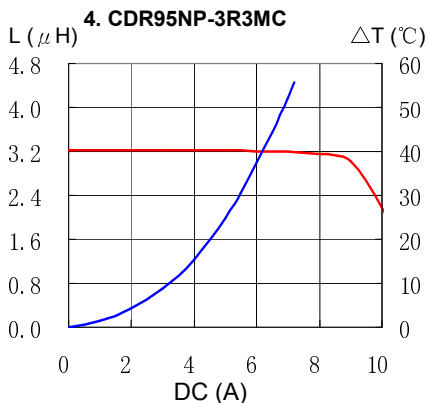
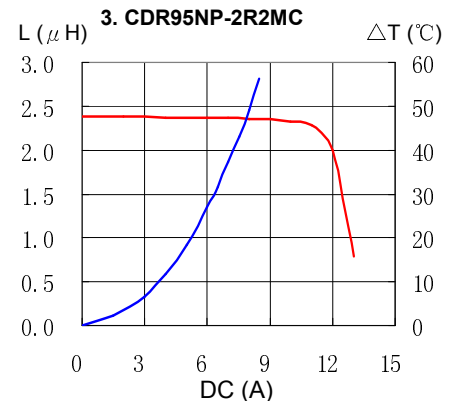
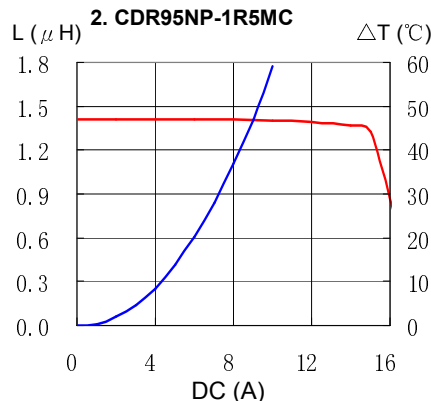
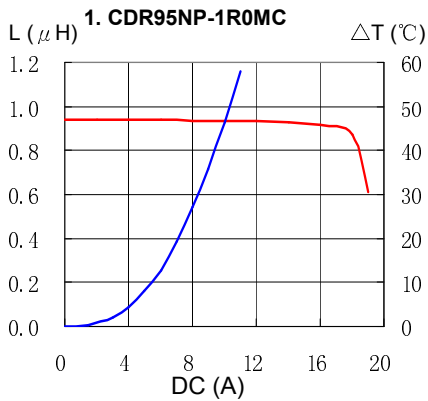
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

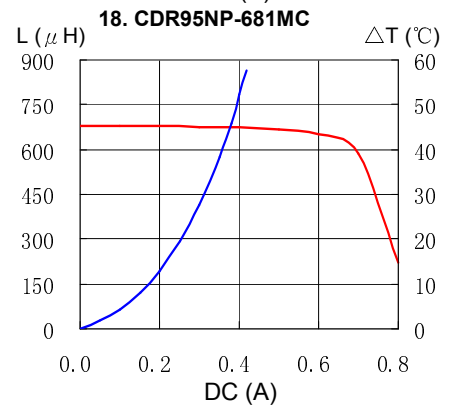
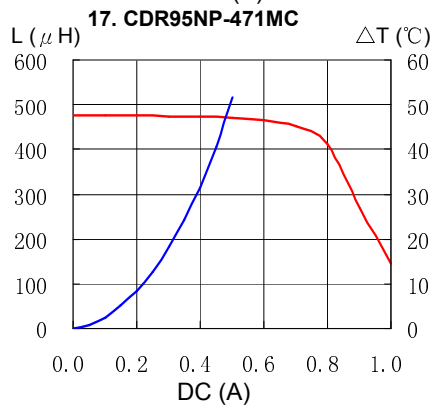
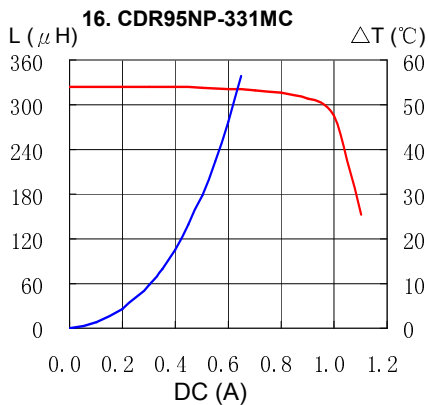
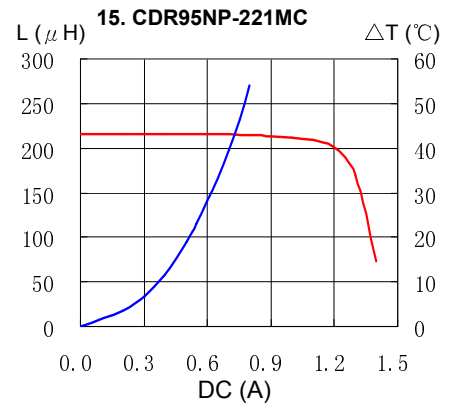
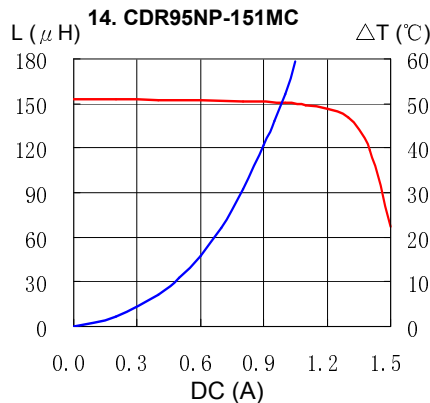
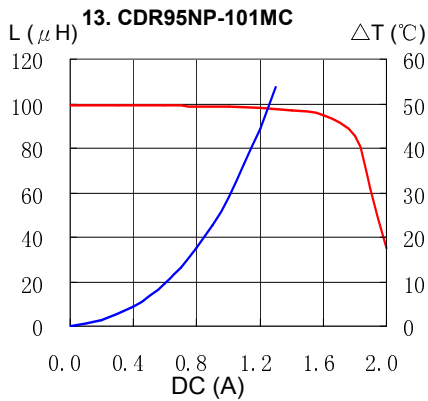


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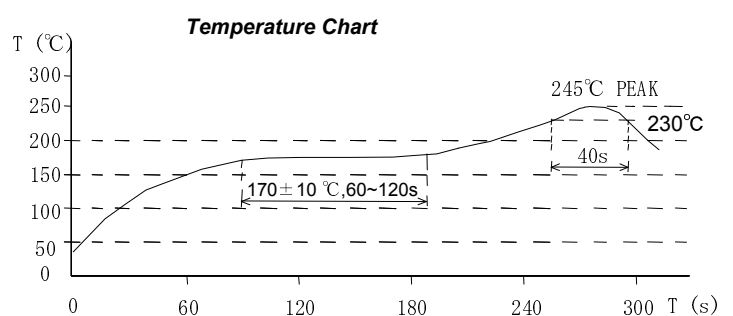
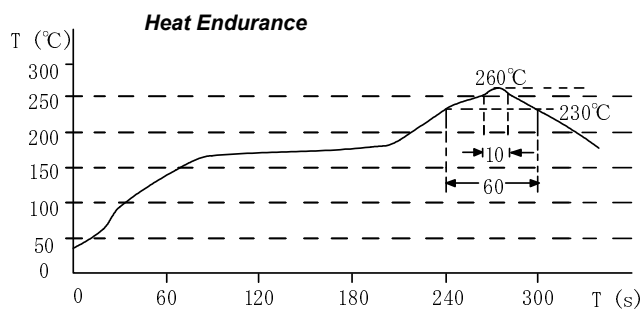


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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