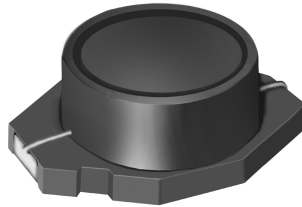


SMD Power Inductor CDRR94



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.9 × 9.4 × 5.0mm Max.
- Product weight: 0.85g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

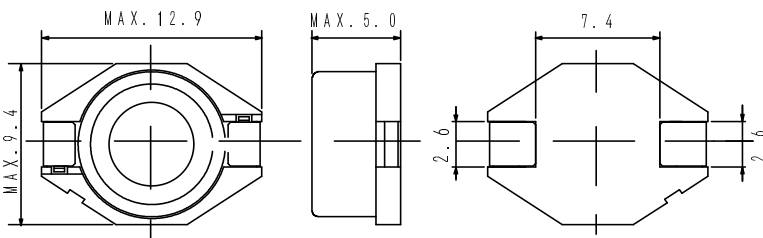
Packaging

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

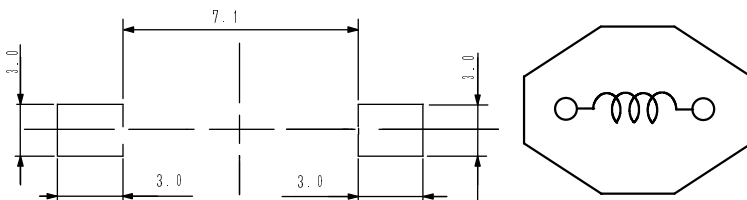
Applications

- Ideally used in Portable Computers, Video Recorder, DSC/DVC, etc as DC-DC Converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDRR94



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
CDRR94NP-1R0MC	1R0	1.0 \pm 20%	15.3(12.2)	10.8	5.0
CDRR94NP-1R5MC	1R5	1.5 \pm 20%	16.9(13.5)	9.6	4.5
CDRR94NP-2R2MC	2R2	2.2 \pm 20%	27.5(22.0)	7.2	3.4
CDRR94NP-3R3MC	3R3	3.3 \pm 20%	38.8(31.0)	6.2	2.7
CDRR94NP-4R7MC	4R7	4.7 \pm 20%	50.6(40.5)	5.4	2.5
CDRR94NP-6R8MC	6R8	6.8 \pm 20%	70.6(56.5)	4.4	2.1
CDRR94NP-100MC	100	10 \pm 20%	91.3(73.0)	3.0	1.9
CDRR94NP-120MC	120	12 \pm 20%	112.5(90)	3.2	1.6
CDRR94NP-150MC	150	15 \pm 20%	150.0(120)	2.8	1.3
CDRR94NP-180MC	180	18 \pm 20%	182.5(146)	2.6	1.2
CDRR94NP-220MC	220	22 \pm 20%	197.5(158)	2.4	1.1
CDRR94NP-270MC	270	27 \pm 20%	269.0(215)	2.1	0.95
CDRR94NP-330MC	330	33 \pm 20%	298.0(238)	1.9	0.90
CDRR94NP-390MC	390	39 \pm 20%	397.0(317)	1.7	0.75
CDRR94NP-470MC	470	47 \pm 20%	435.0(348)	1.6	0.70
CDRR94NP-680MC	680	68 \pm 20%	670.0(536)	1.3	0.55
CDRR94NP-820MC	820	82 \pm 20%	898.0(718)	1.2	0.45
CDRR94NP-101MC	101	100 \pm 20%	1063.0(850)	1.0	0.40

※1. Inductance measuring condition: at 100 kHz.

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

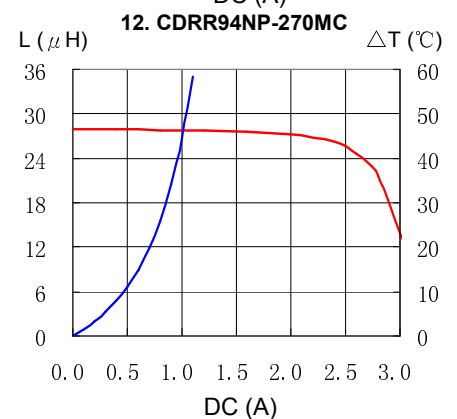
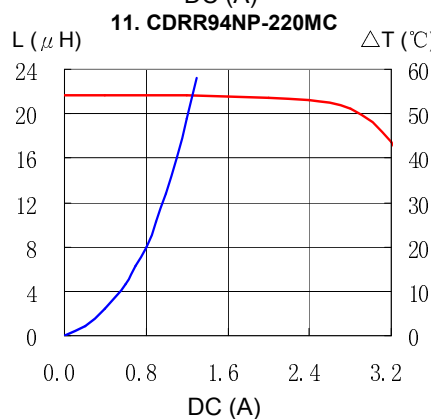
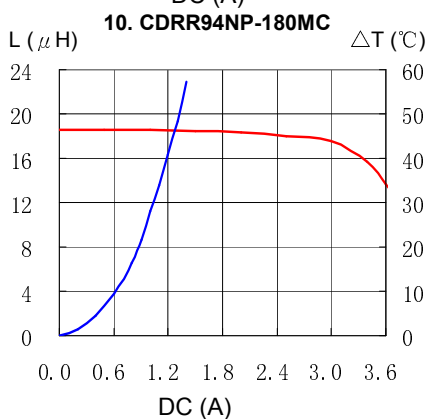
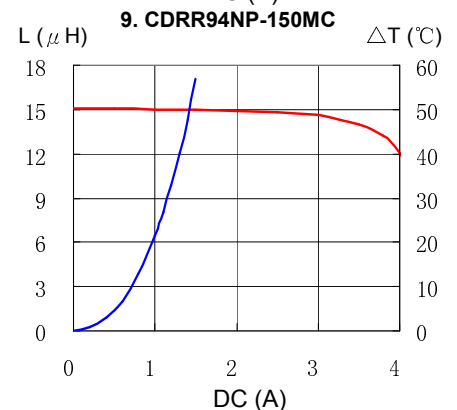
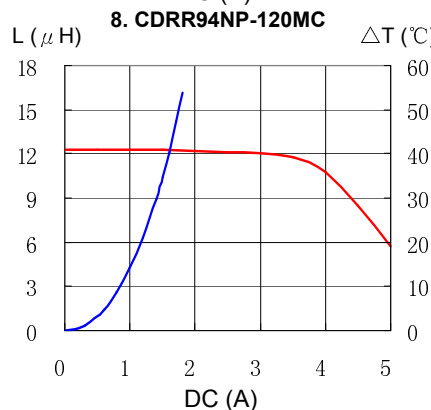
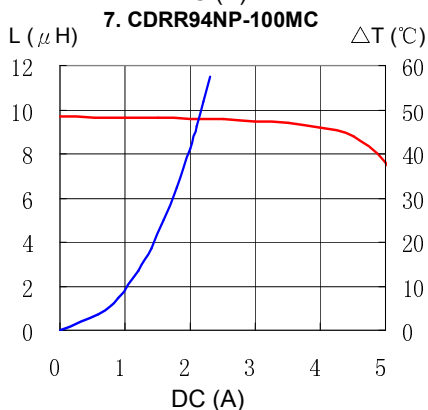
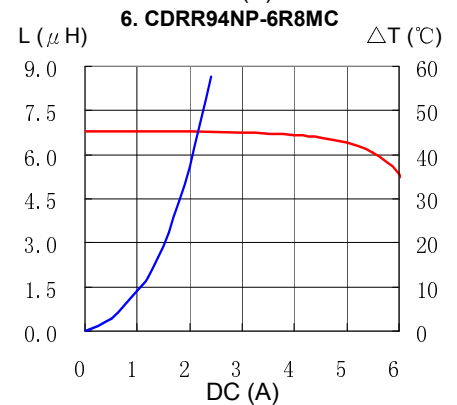
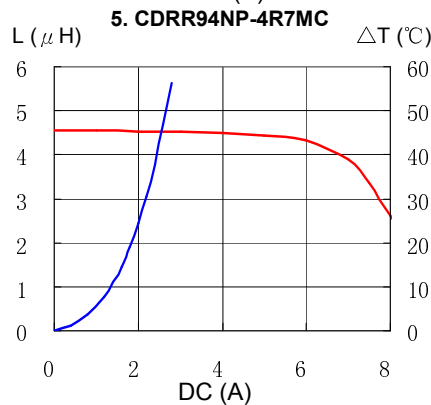
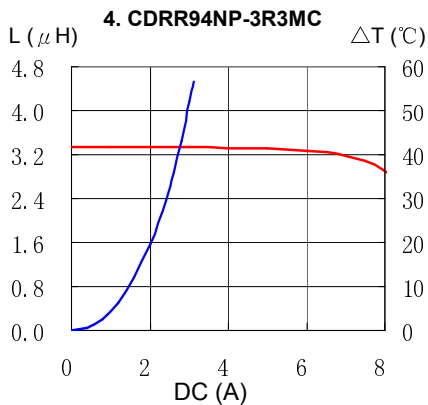
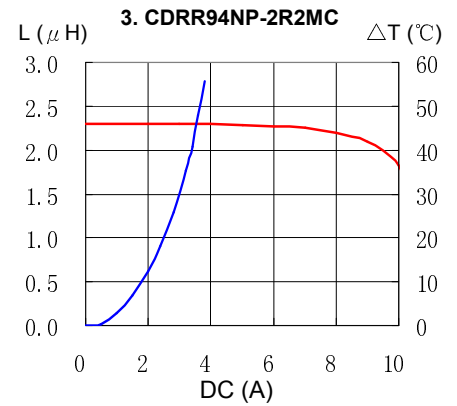
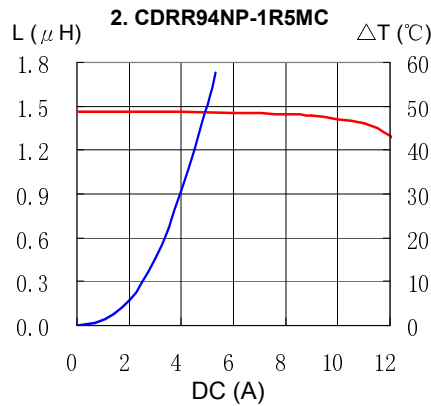
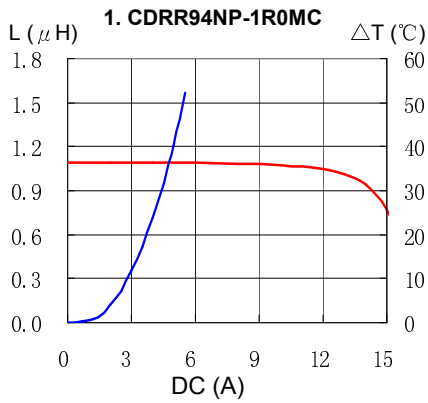
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRR94



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

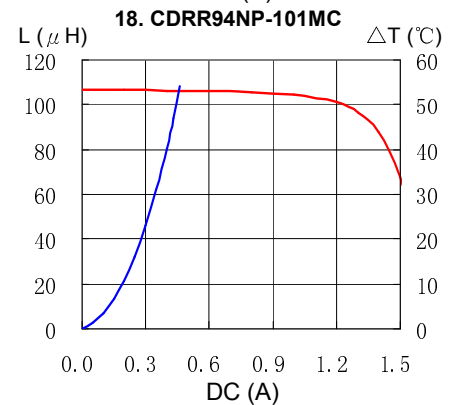
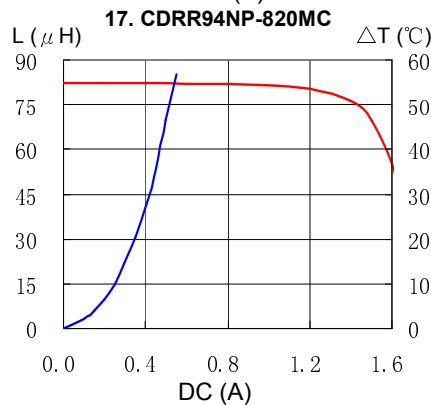
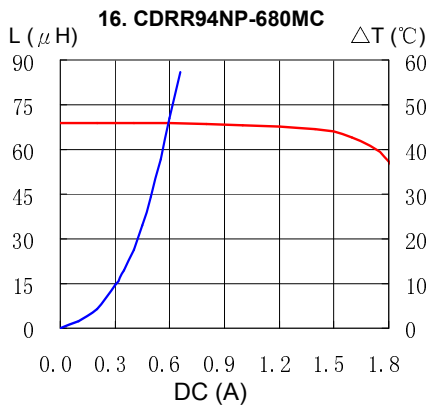
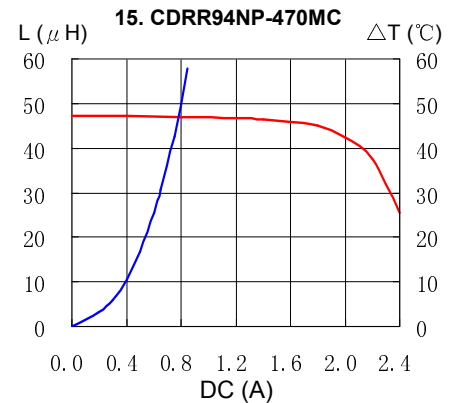
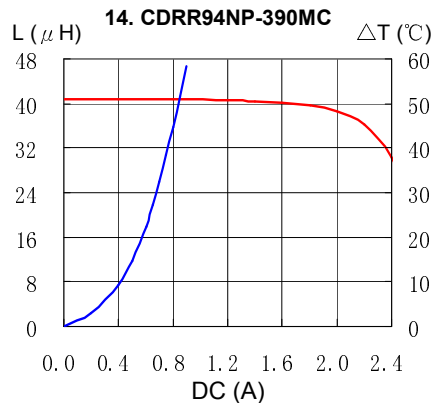
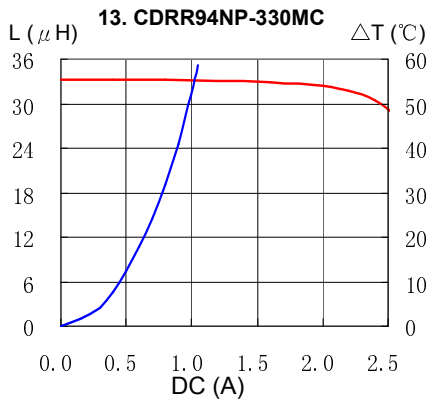


SMD Power Inductor CDRR94

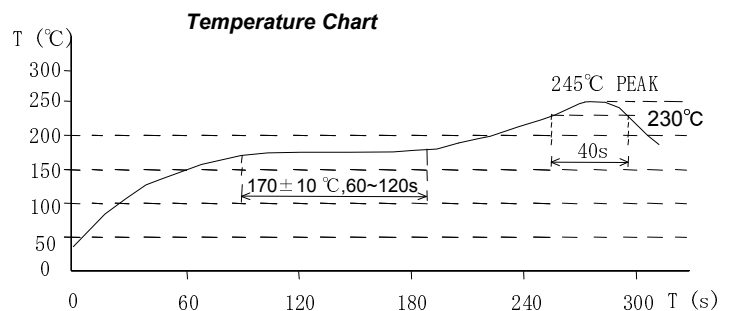
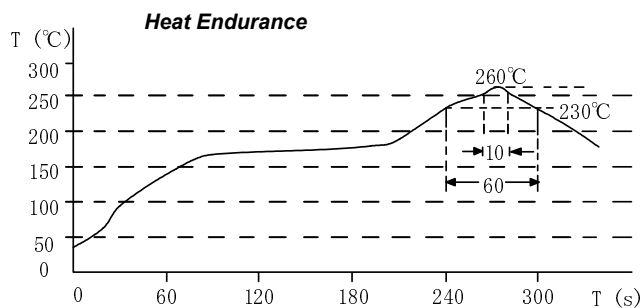


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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