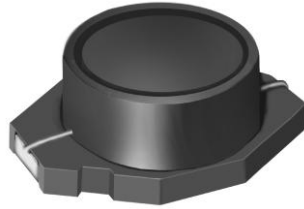


SMD Power Inductor CDRR94



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.

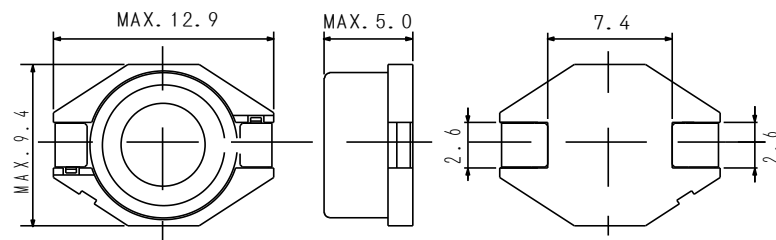
Packaging

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

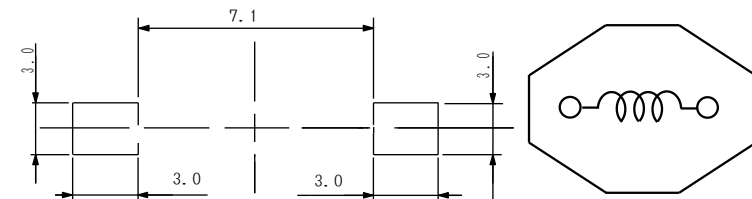
Applications

- 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.

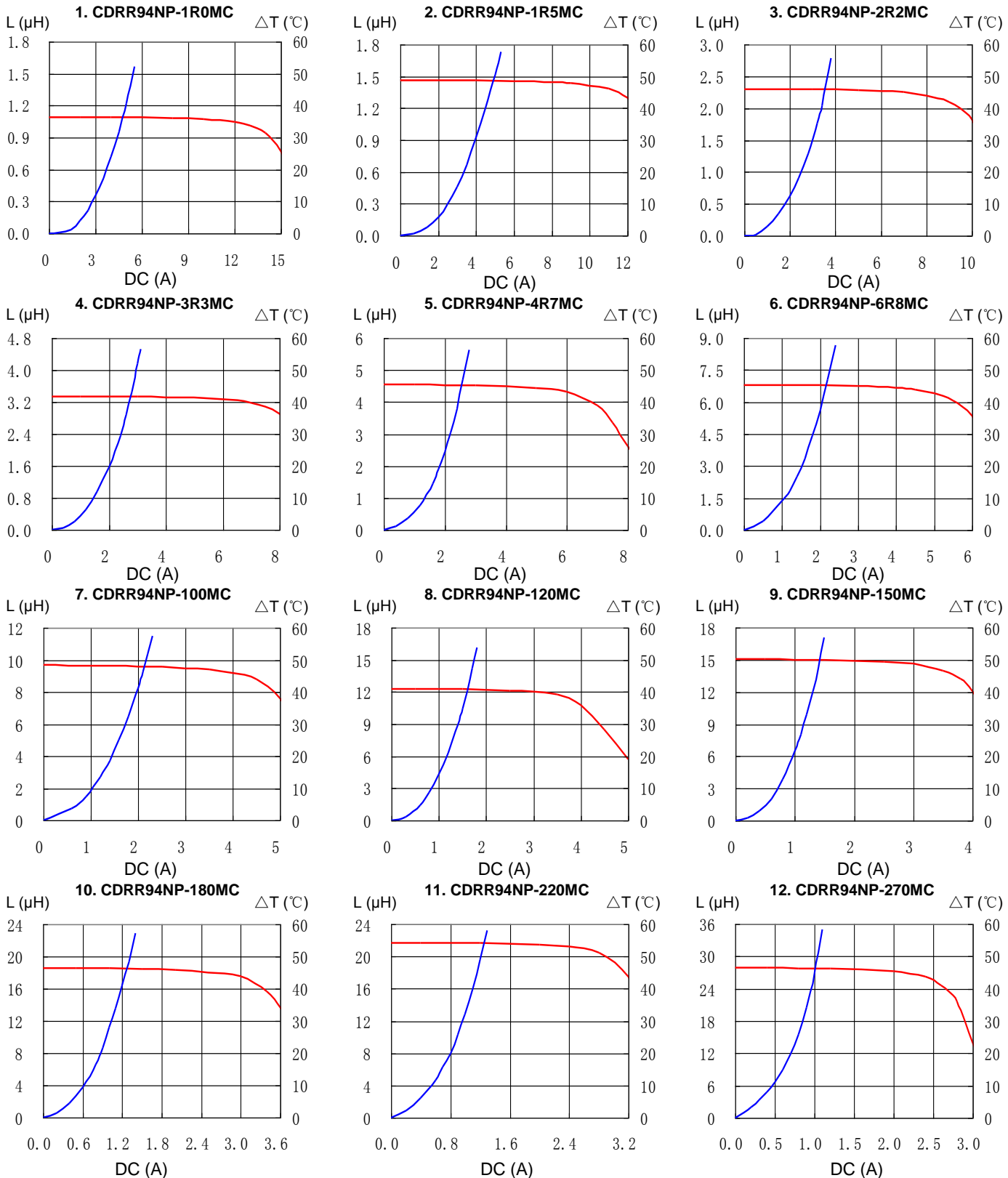
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRR94



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

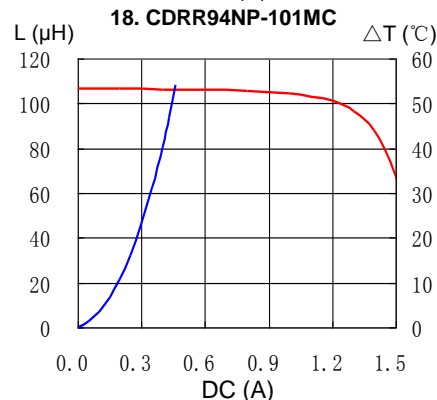
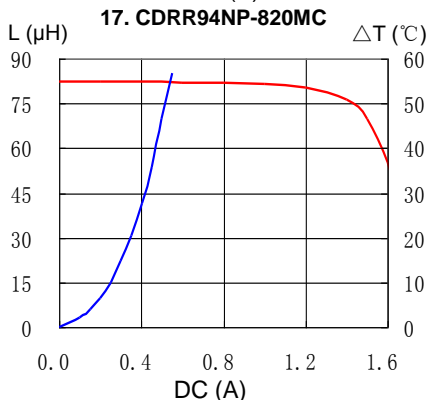
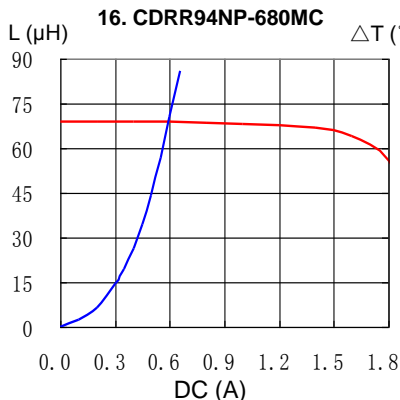
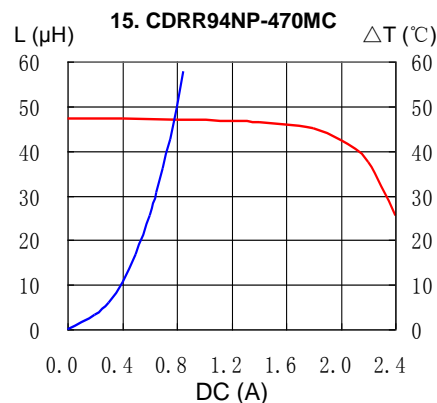
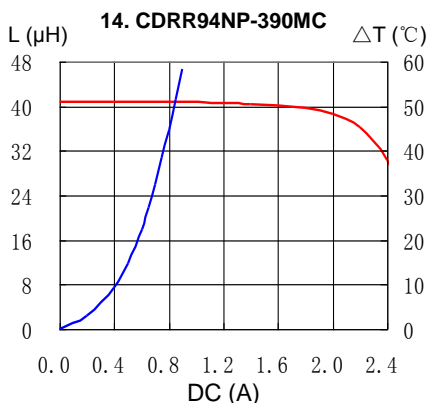
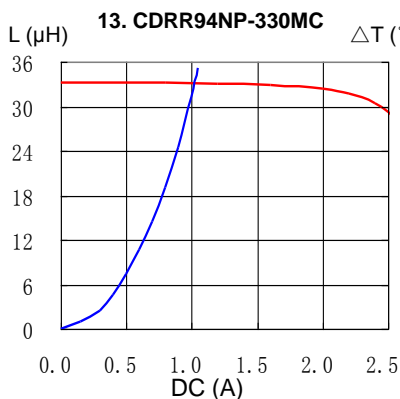


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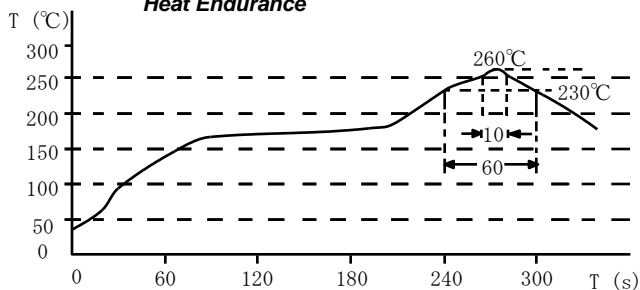
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

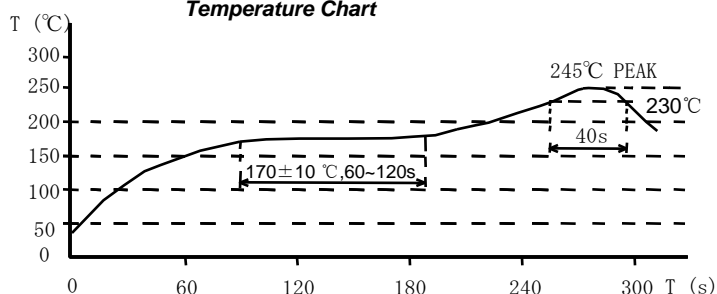


Solder Reflow Condition

Heat Endurance



Temperature Chart



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