

PIN Power Inductor RCR-110D



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 2.7 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+85°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+85°C

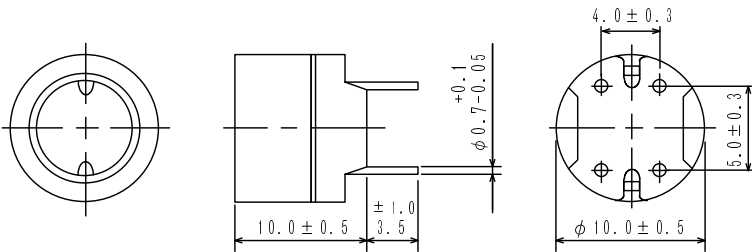
Packaging

- Box packaging.

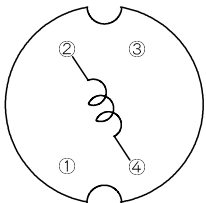
Applications

- Ideally used in Printers, LCD TV, DVD, Copy Machine, Mainboard of the compounding machines etc. as DC-DC Converter inductors.

Dimension - [mm]



Schematics - [mm]



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Electrical Characteristics

| Part Name | Stamp | Inductance (μ H) [within] ※1 | D.C.R. (Ω) [Max.] (at 20°C) | Rated Current (A)※2 |
|----------------|-------|-------------------------------------------|--------------------------------------------|-----------------------------|
| RCR110DNP-100M | 100M | 10 μ H \pm 20% | 0.023 | 3.51 |
| RCR110DNP-120M | 120M | 12 μ H \pm 20% | 0.024 | 3.24 |
| RCR110DNP-150M | 150M | 15 μ H \pm 20% | 0.036 | 2.88 |
| RCR110DNP-180M | 180M | 18 μ H \pm 20% | 0.039 | 2.61 |
| RCR110DNP-220M | 220M | 22 μ H \pm 20% | 0.042 | 2.34 |
| RCR110DNP-270M | 270M | 27 μ H \pm 20% | 0.045 | 2.16 |
| RCR110DNP-330L | 330L | 33 μ H \pm 15% | 0.057 | 1.89 |
| RCR110DNP-390L | 390L | 39 μ H \pm 15% | 0.076 | 1.80 |
| RCR110DNP-470L | 470L | 47 μ H \pm 15% | 0.10 | 1.62 |
| RCR110DNP-560L | 560L | 56 μ H \pm 15% | 0.11 | 1.44 |
| RCR110DNP-680L | 680L | 68 μ H \pm 15% | 0.15 | 1.35 |
| RCR110DNP-820L | 820L | 82 μ H \pm 15% | 0.16 | 1.26 |
| RCR110DNP-101L | 101L | 100 μ H \pm 15% | 0.19 | 1.08 |
| RCR110DNP-121L | 121L | 120 μ H \pm 15% | 0.21 | 0.99 |
| RCR110DNP-151L | 151L | 150 μ H \pm 15% | 0.23 | 0.90 |
| RCR110DNP-181L | 181L | 180 μ H \pm 15% | 0.26 | 0.82 |
| RCR110DNP-221L | 221L | 220 μ H \pm 15% | 0.29 | 0.74 |
| RCR110DNP-271L | 271L | 270 μ H \pm 15% | 0.36 | 0.67 |
| RCR110DNP-331L | 331L | 330 μ H \pm 15% | 0.51 | 0.61 |
| RCR110DNP-391L | 391L | 390 μ H \pm 15% | 0.69 | 0.55 |
| RCR110DNP-471L | 471L | 470 μ H \pm 15% | 0.98 | 0.51 |
| RCR110DNP-561L | 561L | 560 μ H \pm 15% | 1.1 | 0.46 |
| RCR110DNP-681L | 681L | 680 μ H \pm 15% | 1.2 | 0.42 |
| RCR110DNP-821L | 821L | 820 μ H \pm 15% | 1.3 | 0.38 |
| RCR110DNP-102L | 102L | 1.0mH \pm 15% | 1.5 | 0.35 |

※1 Inductance Measuring condition at 1kHz .

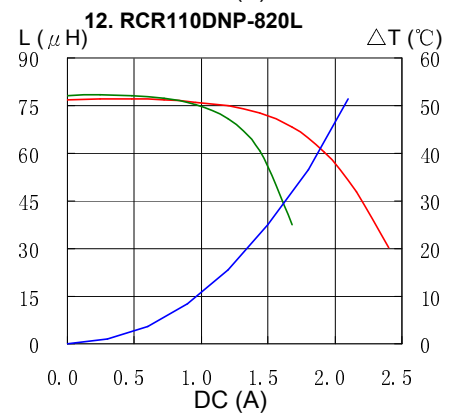
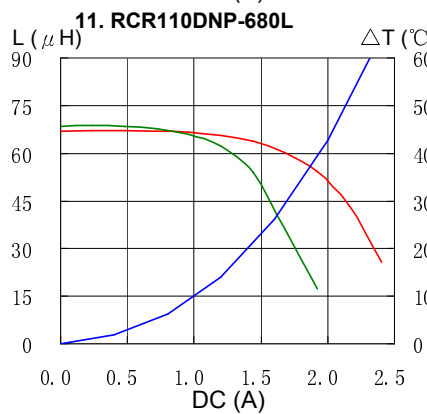
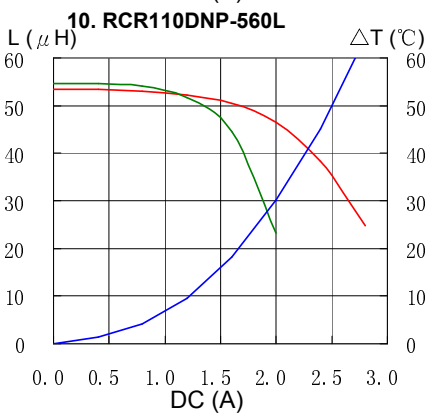
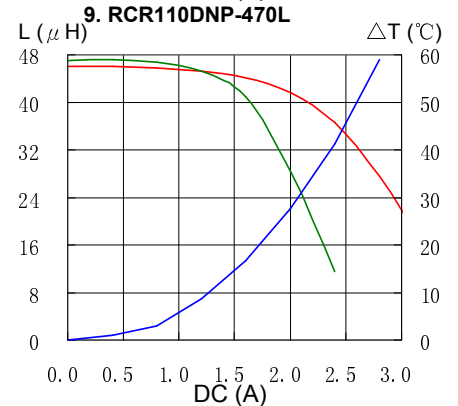
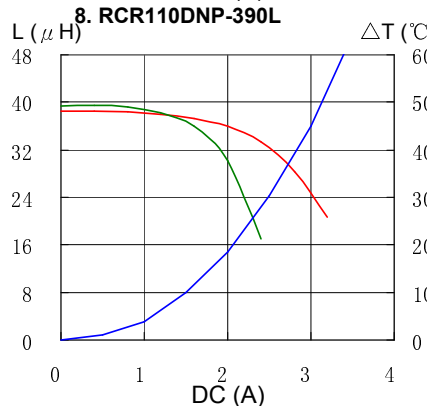
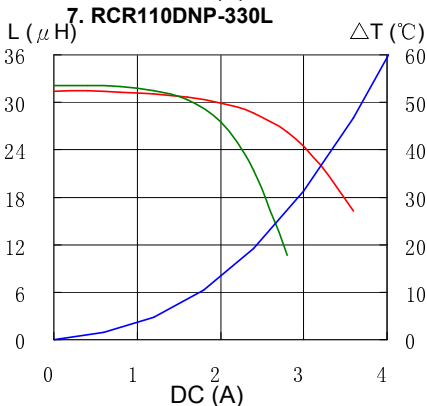
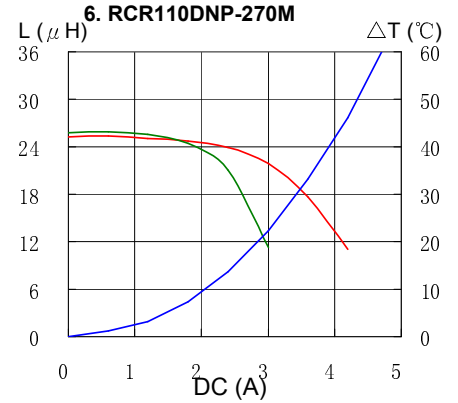
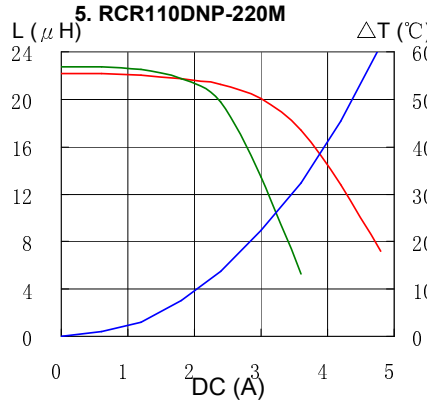
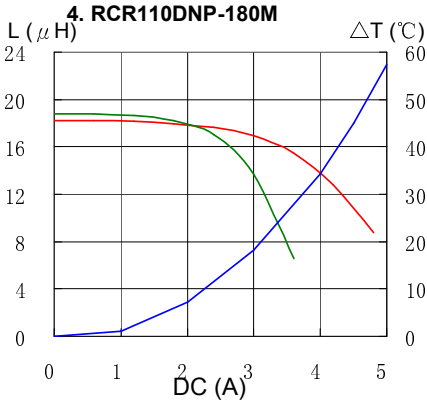
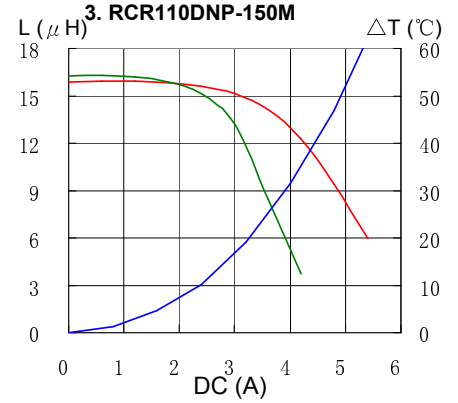
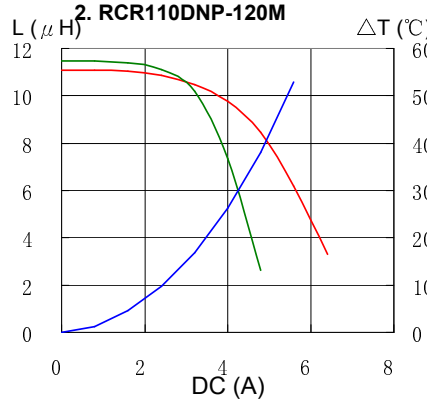
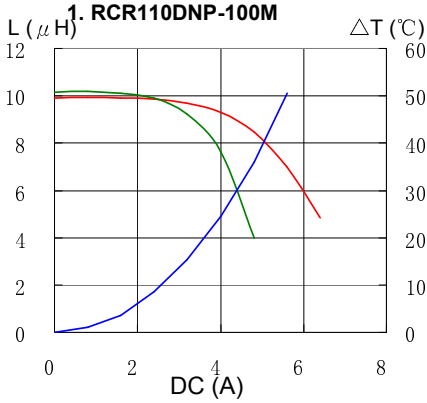
※2 Rated current: The DC current at which the inductance decreases 90% of it's initial value or when $\Delta t=40^{\circ}\text{C}$ whichever is lower ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

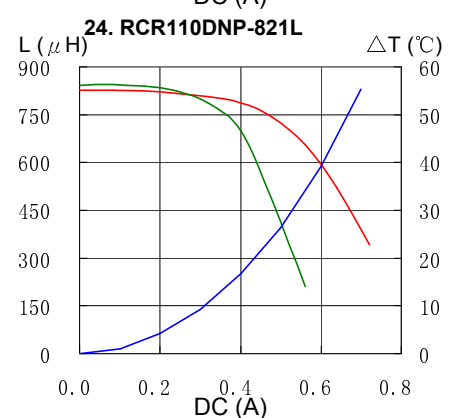
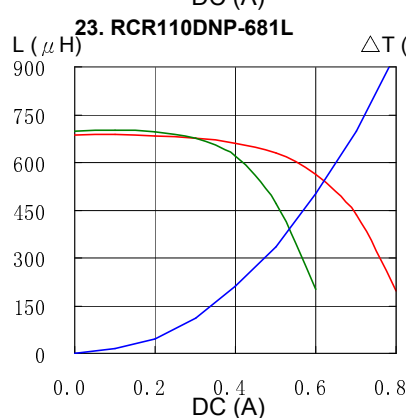
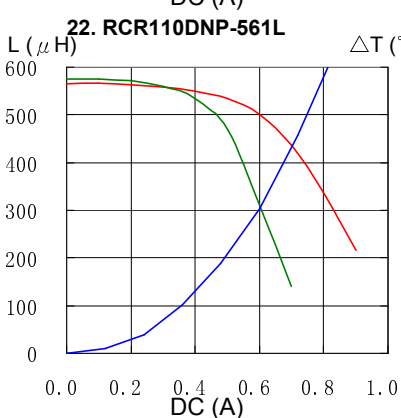
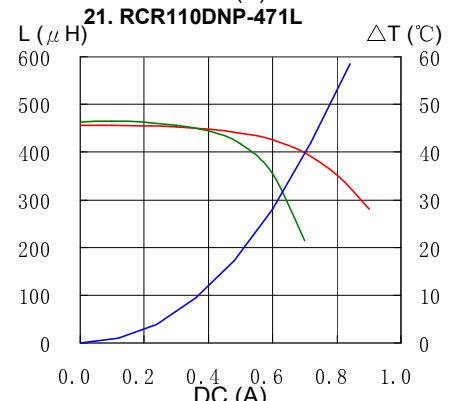
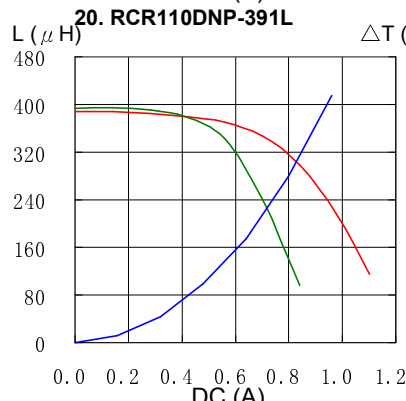
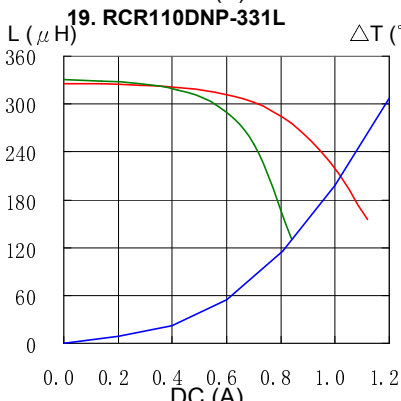
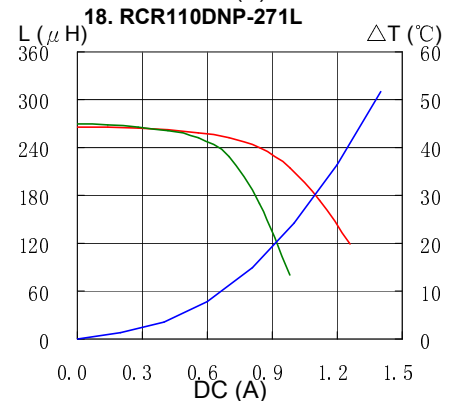
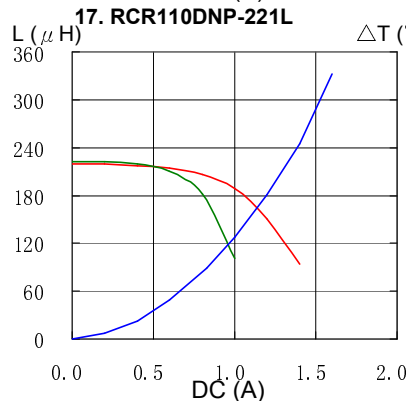
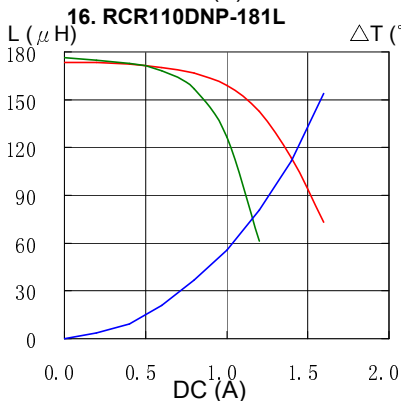
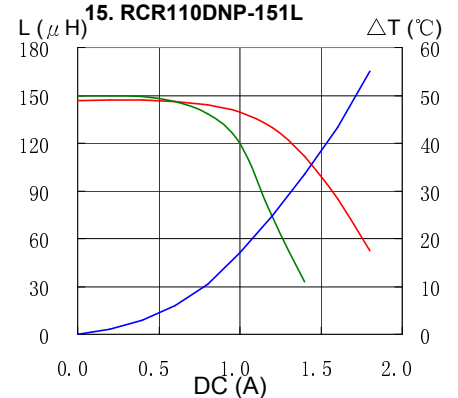
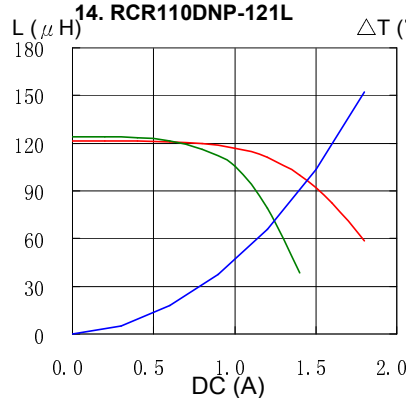
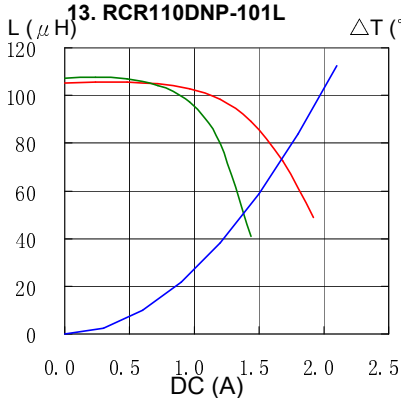


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Saturation Current & Temperature Rise Graph

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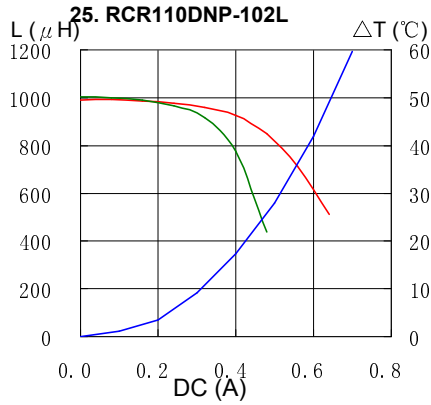


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



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