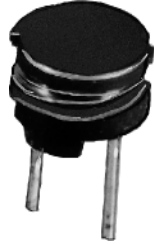




**THE DATASHEET OF
RCH855NP-470K**



PIN Power Inductor RCH-855



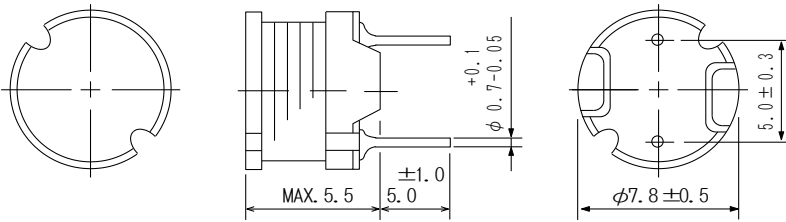
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 5.5mm Max.
- Product weight: 0.9g(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

Dimension - [mm]



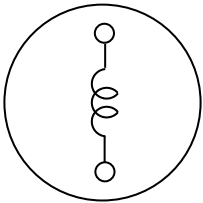
Packaging

- Box packaging.

Applications

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

Schematics - [mm]



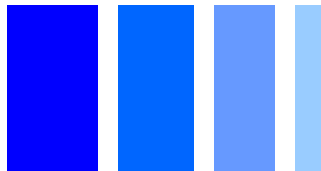
PIN Power Inductor

RCH-855



Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [Within] ※ 1 | D.C.R(Ω) (Max.) (at20°C) | Saturation Current (A) ※2 | Temperature rise current (A) ※3 |
|---------------|-------|---|--|-----------------------------------|---------------------------------------|
| RCH855NP-2R5M | 2R5M | 2.5 \pm 20% | 23m | 4.5 | 3.1 |
| RCH855NP-3R3M | 3R3M | 3.3 \pm 20% | 26m | 4.0 | 2.7 |
| RCH855NP-4R1M | 4R1M | 4.1 \pm 20% | 31m | 3.6 | 2.5 |
| RCH855NP-5R0M | 5R0M | 5.0 \pm 20% | 34m | 3.4 | 2.4 |
| RCH855NP-5R9M | 5R9M | 5.9 \pm 20% | 39m | 3.2 | 2.2 |
| RCH855NP-6R8M | 6R8M | 6.8 \pm 20% | 42m | 2.9 | 2.1 |
| RCH855NP-8R2M | 8R2M | 8.2 \pm 20% | 45m | 2.7 | 1.9 |
| RCH855NP-100M | 100M | 10 \pm 20% | 70m | 2.5 | 1.3 |
| RCH855NP-120M | 120M | 12 \pm 20% | 80m | 2.4 | 1.1 |
| RCH855NP-150M | 150M | 15 \pm 20% | 90m | 2.1 | 0.95 |
| RCH855NP-180M | 180M | 18 \pm 20% | 100m | 2.0 | 0.90 |
| RCH855NP-220K | 220K | 22 \pm 10% | 120m | 1.7 | 0.77 |
| RCH855NP-270K | 270K | 27 \pm 10% | 140m | 1.6 | 0.72 |
| RCH855NP-330K | 330K | 33 \pm 10% | 170m | 1.4 | 0.67 |
| RCH855NP-390K | 390K | 39 \pm 10% | 210m | 1.3 | 0.59 |
| RCH855NP-470K | 470K | 47 \pm 10% | 240m | 1.2 | 0.57 |
| RCH855NP-560K | 560K | 56 \pm 10% | 0.31 | 1.1 | 0.50 |
| RCH855NP-680K | 680K | 68 \pm 10% | 0.34 | 1.0 | 0.47 |
| RCH855NP-820K | 820K | 82 \pm 10% | 0.40 | 0.93 | 0.43 |
| RCH855NP-101K | 101K | 100 \pm 10% | 0.52 | 0.81 | 0.37 |
| RCH855NP-121K | 121K | 120 \pm 10% | 0.59 | 0.76 | 0.36 |
| RCH855NP-151K | 151K | 150 \pm 10% | 0.71 | 0.67 | 0.32 |
| RCH855NP-181K | 181K | 180 \pm 10% | 0.89 | 0.62 | 0.30 |
| RCH855NP-221K | 221K | 220 \pm 10% | 1.04 | 0.54 | 0.28 |
| RCH855NP-271K | 271K | 270 \pm 10% | 1.28 | 0.49 | 0.25 |
| RCH855NP-331K | 331K | 330 \pm 10% | 1.47 | 0.44 | 0.23 |
| RCH855NP-391K | 391K | 390 \pm 10% | 1.67 | 0.41 | 0.22 |
| RCH855NP-471K | 471K | 470 \pm 10% | 1.95 | 0.38 | 0.20 |
| RCH855NP-561K | 561K | 560 \pm 10% | 2.83 | 0.35 | 0.16 |
| RCH855NP-681K | 681K | 680 \pm 10% | 3.25 | 0.32 | 0.15 |
| RCH855NP-821K | 821K | 820 \pm 10% | 3.82 | 0.31 | 0.14 |



Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [Within] ※1 | D.C.R(Ω) (Max.) (at20°C) | Saturation Current (A) ※2 | Temperature rise current (A) ※3 |
|---------------|-------|--|---|-----------------------------------|---|
| RCH855NP-102K | 102K | 1000 \pm 10% | 5.28 | 0.25 | 0.12 |
| RCH855NP-122K | 122K | 1200 \pm 10% | 6.03 | 0.23 | 0.11 |
| RCH855NP-152K | 152K | 1500 \pm 10% | 7.15 | 0.21 | 99m |
| RCH855NP-182K | 182K | 1800 \pm 10% | 8.26 | 0.20 | 90m |
| RCH855NP-222K | 222K | 2200 \pm 10% | 11.1 | 0.18 | 81m |
| RCH855NP-272K | 272K | 2700 \pm 10% | 13.1 | 0.16 | 77m |
| RCH855NP-332K | 332K | 3300 \pm 10% | 15.9 | 0.14 | 68m |
| RCH855NP-392K | 392K | 3900 \pm 10% | 18.0 | 0.13 | 65m |
| RCH855NP-472K | 472K | 4700 \pm 10% | 23.9 | 0.12 | 56m |
| RCH855NP-562K | 562K | 5600 \pm 10% | 26.8 | 0.11 | 53m |
| RCH855NP-682K | 682K | 6800 \pm 10% | 31.7 | 98m | 49m |
| RCH855NP-822K | 822K | 8200 \pm 10% | 46.5 | 88m | 40m |
| RCH855NP-103K | 103K | 10000 \pm 10% | 55.7 | 81m | 37m |

※1: Inductance Measuring frequency: 2.5 μH ~ 8.2 μH at 7.96MHz; 10 μH ~ 82 μH at 2.52MHz; 100 μH ~ 10 mH at 1 kHz

※2: Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

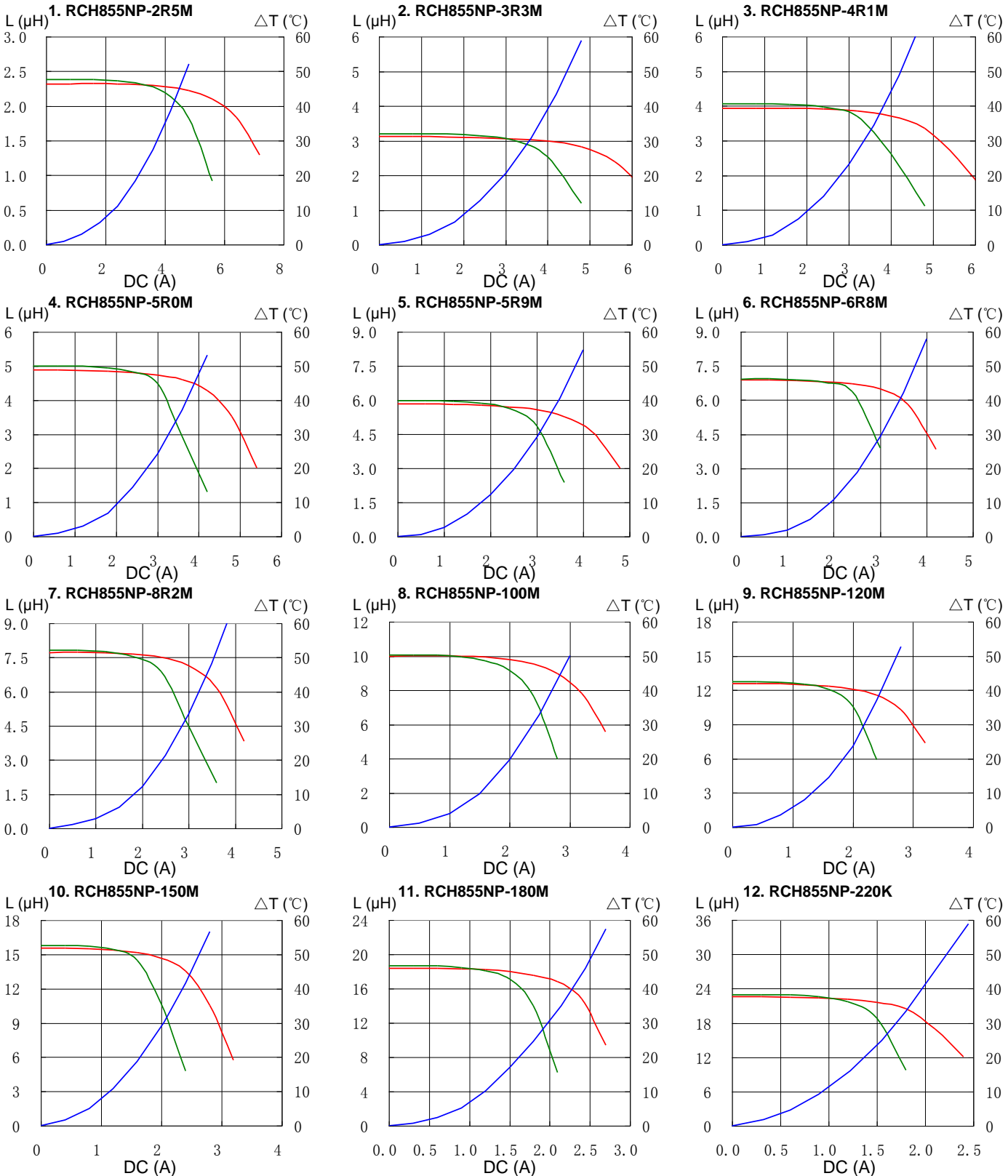
※3: Temperature rise current: The DC current at which the temperature rise is $\Delta t=20^\circ\text{C}$. ($T_a=20^\circ\text{C}$).

PIN Power Inductor RCH-855

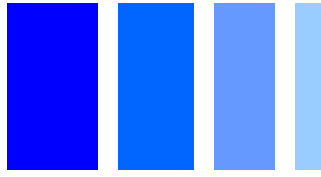


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

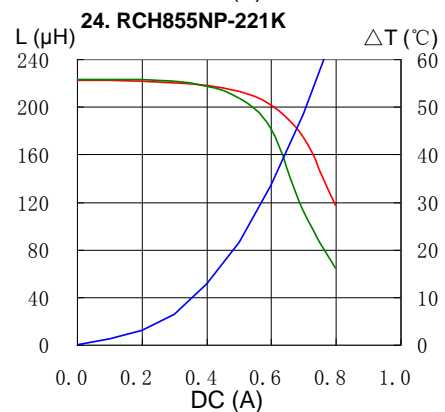
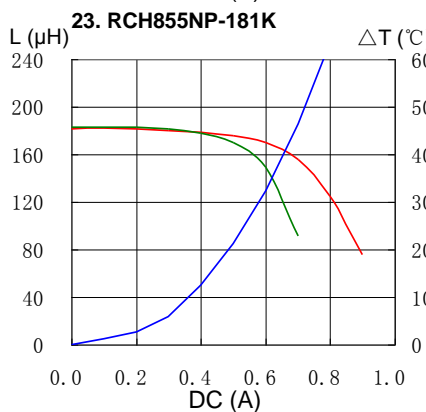
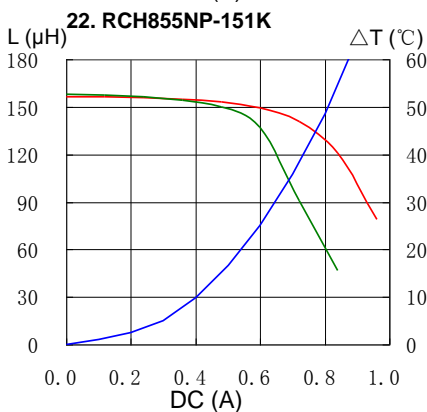
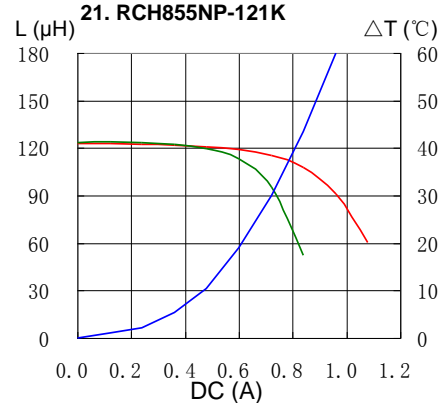
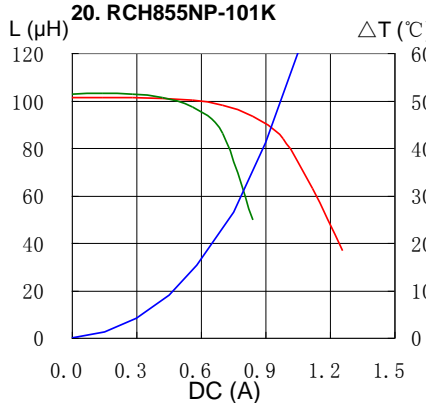
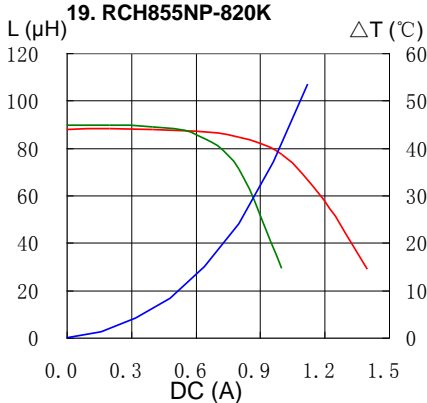
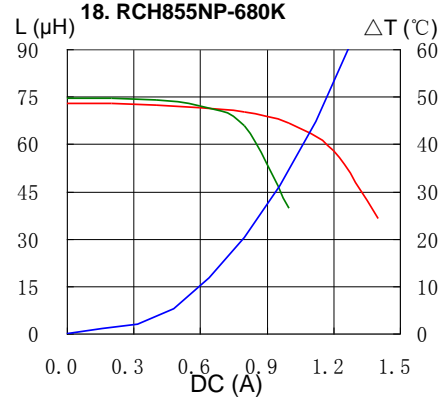
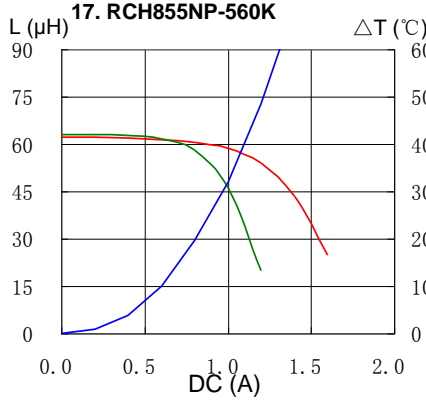
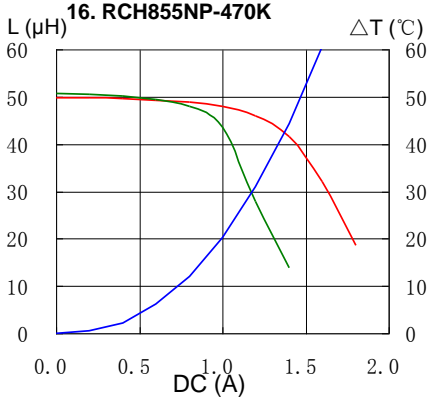
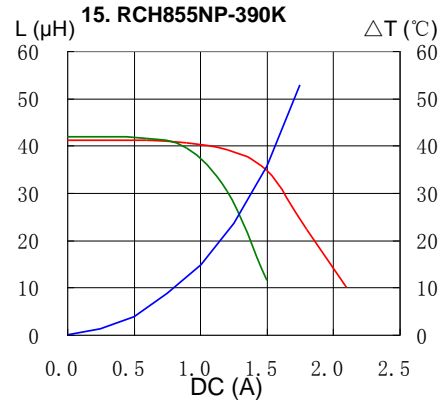
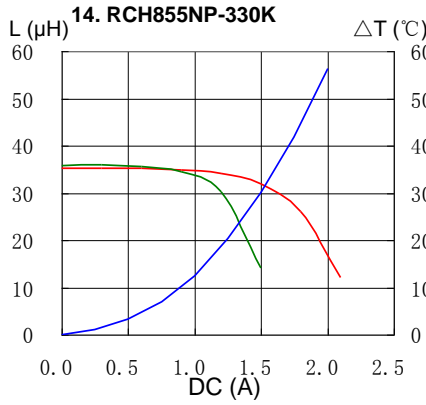
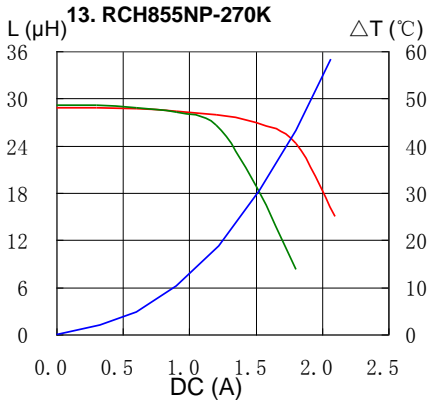


PIN Power Inductor RCH-855

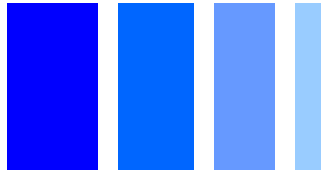


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

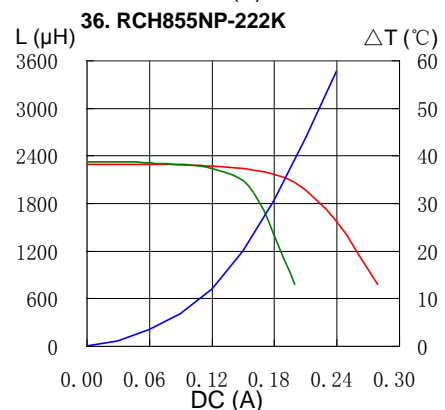
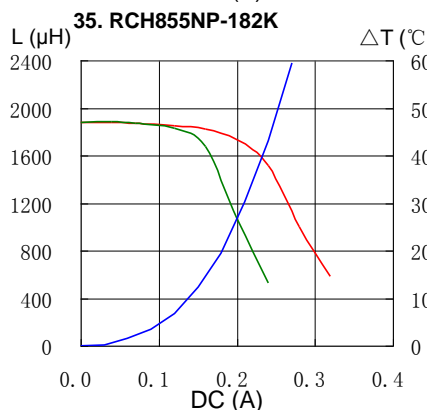
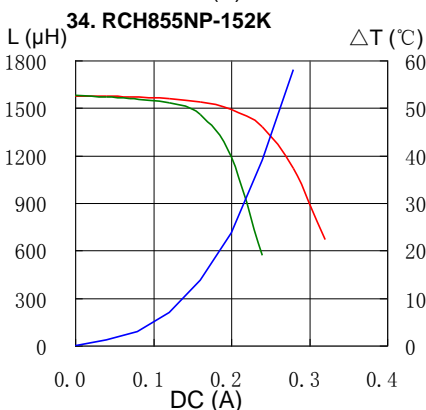
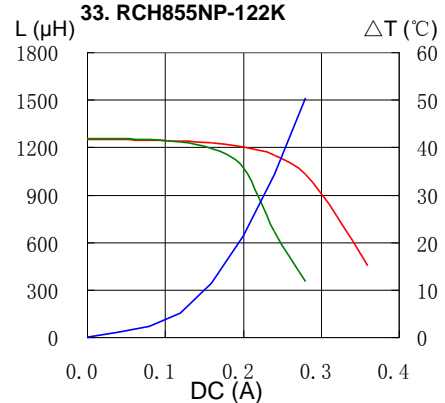
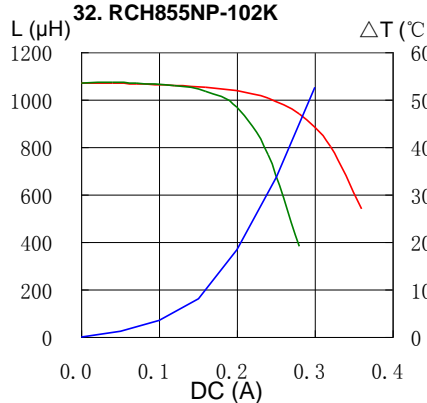
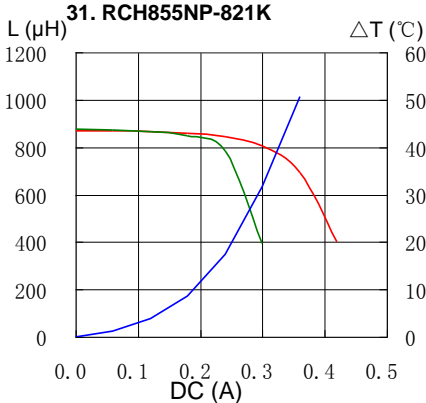
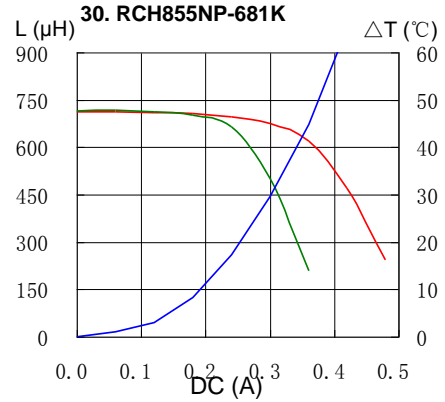
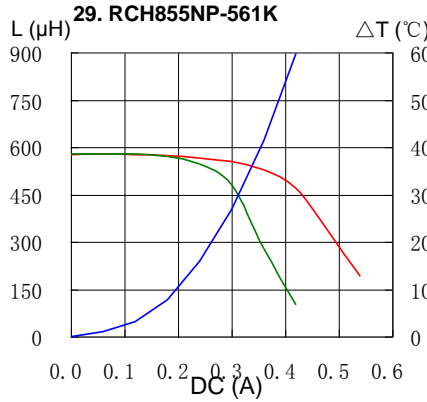
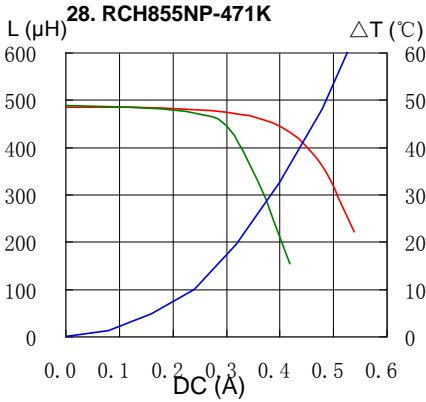
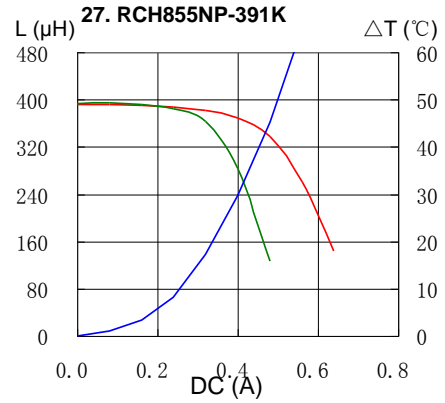
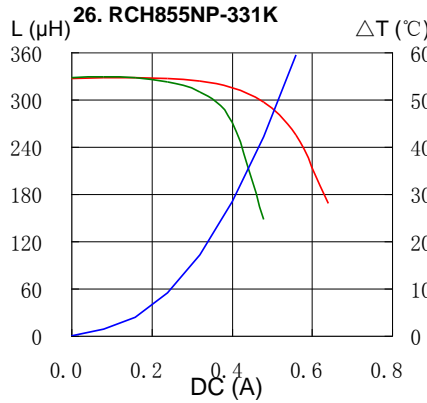
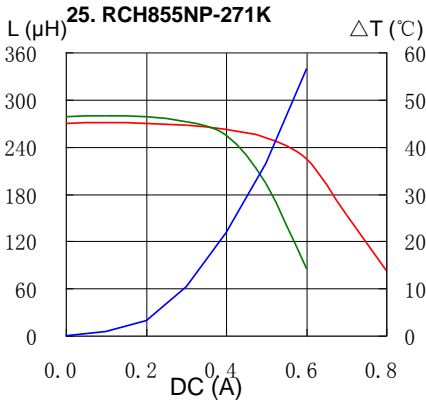


PIN Power Inductor RCH-855

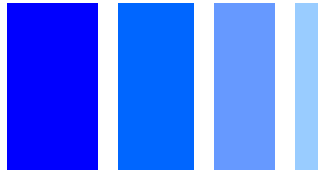


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

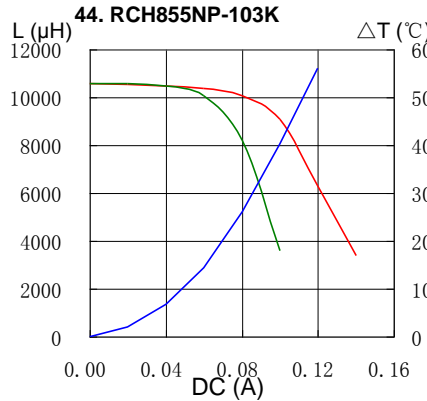
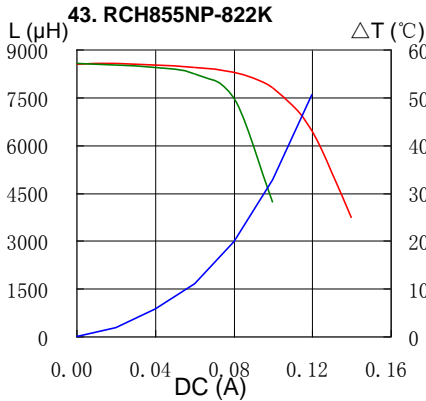
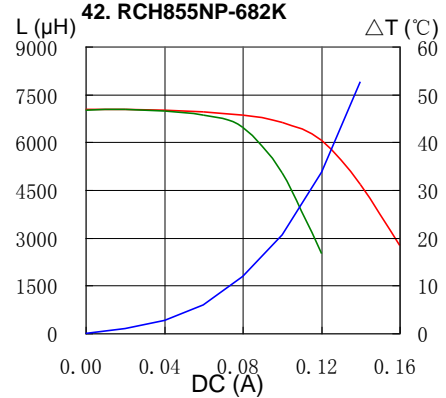
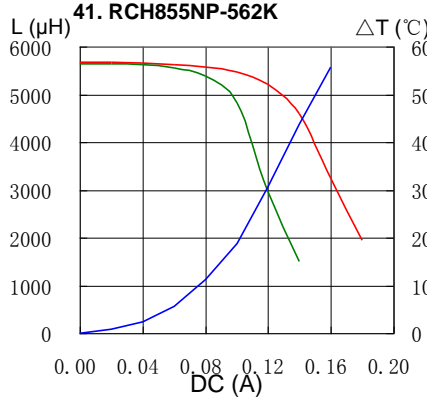
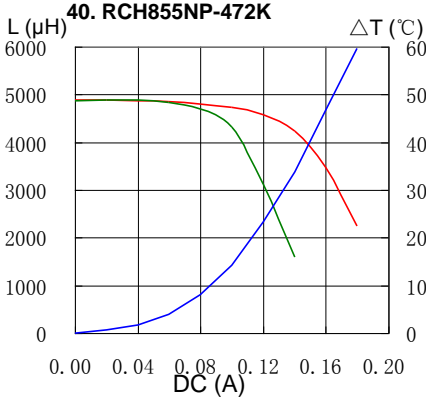
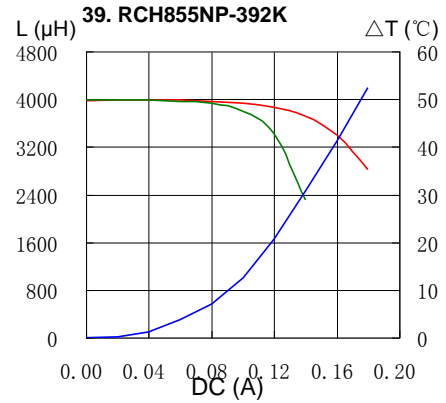
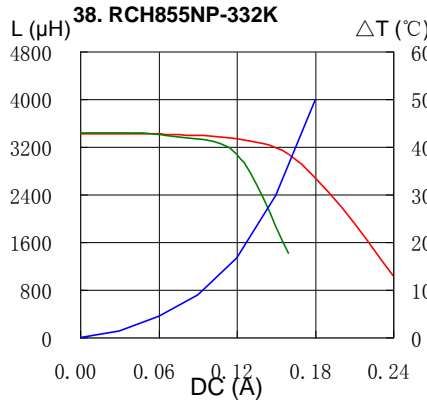
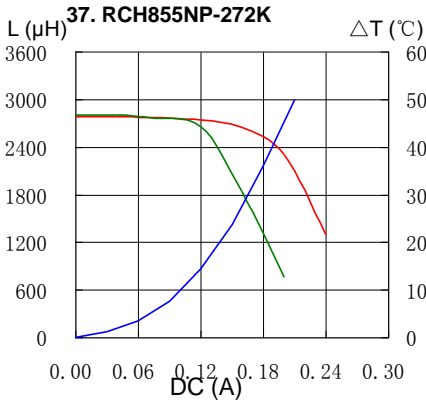


PIN Power Inductor RCH-855



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



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