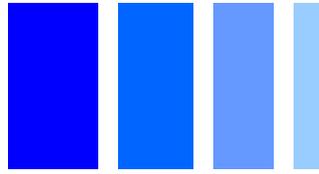


PIN Power Inductor RCH-106



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 6.5mm Max.
- Product weight: 1.7 g(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

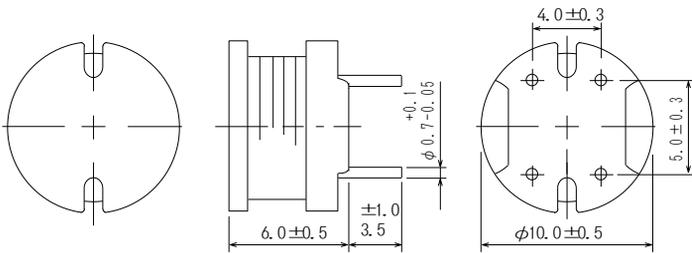
Packaging

- Box packaging.

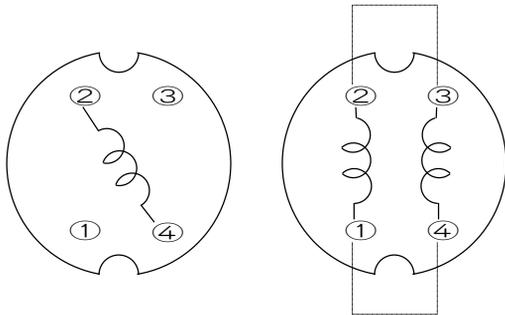
Applications

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

Dimension - [mm]

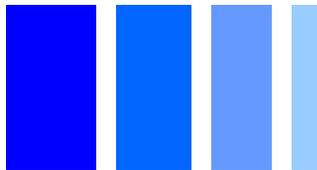


Schematics - [mm]



(100M ~ 102K)

(1R0N ~ 7R8M)



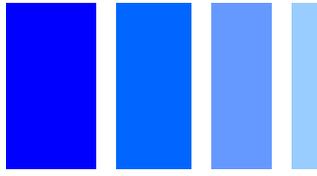
Electrical Characteristics

| PART NO | STAMP | INDUCTANCE [WITHIN] ※1 | D.C.R. (Ω) [MAX.] (at20°C) | RATED CURRENT (A) ※2 |
|---------------|-------|---------------------------|-------------------------------------|----------------------------|
| RCH106NP-1R0N | 1R0N | 1.0μH ± 30 % | 5.0m | 9.3 |
| RCH106NP-1R2N | 1R2N | 1.2μH ± 30 % | 6.9m | 8.0 |
| RCH106NP-1R8M | 1R8M | 1.8μH ± 20 % | 8.0m | 7.4 |
| RCH106NP-2R8M | 2R8M | 2.8μH ± 20 % | 11.8m | 6.0 |
| RCH106NP-3R6M | 3R6M | 3.6μH ± 20 % | 13.8m | 5.7 |
| RCH106NP-5R1M | 5R1M | 5.1μH ± 20 % | 19.6m | 4.6 |
| RCH106NP-6R3M | 6R3M | 6.3μH ± 20 % | 23.1m | 4.2 |
| RCH106NP-7R8M | 7R8M | 7.8μH ± 20 % | 24.8m | 3.9 |
| RCH106NP-100M | 100M | 10μH ± 20 % | 0.040 | 3.6 |
| RCH106NP-120M | 120M | 12μH ± 20 % | 0.044 | 3.3 |
| RCH106NP-150M | 150M | 15μH ± 20 % | 0.058 | 2.9 |
| RCH106NP-180M | 180M | 18μH ± 20 % | 0.064 | 2.7 |
| RCH106NP-220M | 220M | 22μH ± 20 % | 0.088 | 2.4 |
| RCH106NP-270M | 270M | 27μH ± 20 % | 0.10 | 2.2 |
| RCH106NP-330K | 330K | 33μH ± 10 % | 0.11 | 2.0 |
| RCH106NP-390K | 390K | 39μH ± 10 % | 0.14 | 1.8 |
| RCH106NP-470K | 470K | 47μH ± 10 % | 0.16 | 1.7 |
| RCH106NP-560K | 560K | 56μH ± 10 % | 0.19 | 1.5 |
| RCH106NP-680K | 680K | 68μH ± 10 % | 0.22 | 1.4 |
| RCH106NP-820K | 820K | 82μH ± 10 % | 0.29 | 1.3 |
| RCH106NP-101K | 101K | 100μH ± 10 % | 0.32 | 1.3 |
| RCH106NP-121K | 121K | 120μH ± 10 % | 0.38 | 1.2 |
| RCH106NP-151K | 151K | 150μH ± 10 % | 0.50 | 1.0 |
| RCH106NP-181K | 181K | 180μH ± 10 % | 0.56 | 0.84 |
| RCH106NP-221K | 221K | 220μH ± 10 % | 0.78 | 0.76 |
| RCH106NP-271K | 271K | 270μH ± 10 % | 0.92 | 0.69 |
| RCH106NP-331K | 331K | 330μH ± 10 % | 1.1 | 0.62 |
| RCH106NP-391K | 391K | 390μH ± 10 % | 1.3 | 0.57 |
| RCH106NP-471K | 471K | 470μH ± 10 % | 1.5 | 0.52 |
| RCH106NP-561K | 561K | 560μH ± 10 % | 1.9 | 0.48 |
| RCH106NP-681K | 681K | 680μH ± 10 % | 2.2 | 0.43 |
| RCH106NP-821K | 821K | 820μH ± 10 % | 2.6 | 0.40 |
| RCH106NP-102K | 102K | 1.0 mH ± 10 % | 3.2 | 0.36 |

※1: Inductance measuring condition: 1.0μH ~ 7.8μH at 7.96MHz
10μH ~ 1.0mH at 1kHz

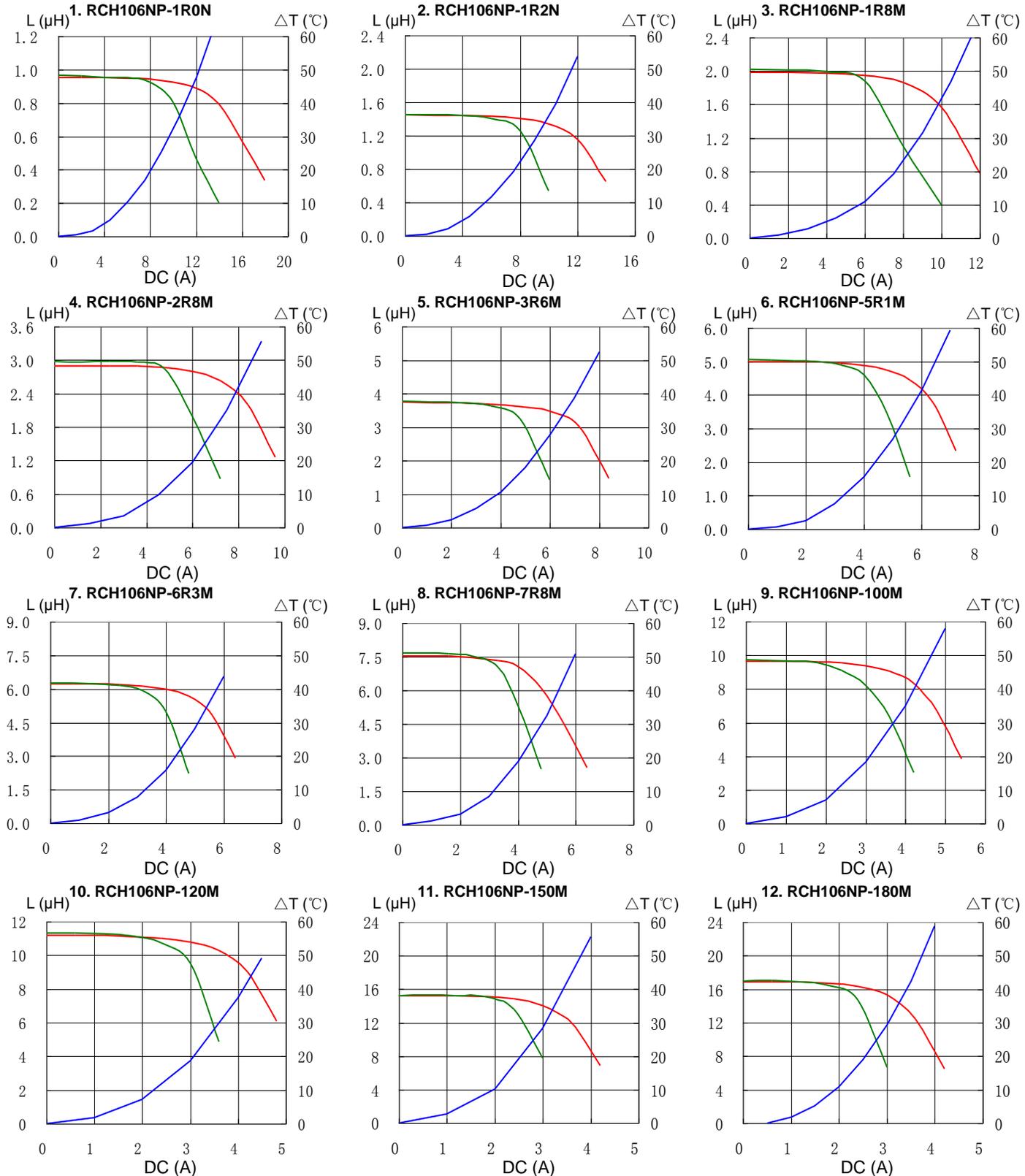
※2: The rated current indicates the lower value of current when the inductance is 10% lower than its initial value at D.C. superposition or the temperature of coil rises 40°C with D.C. current passing. (Ta=20°C)

PIN Power Inductor RCH-106

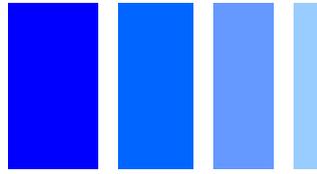


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

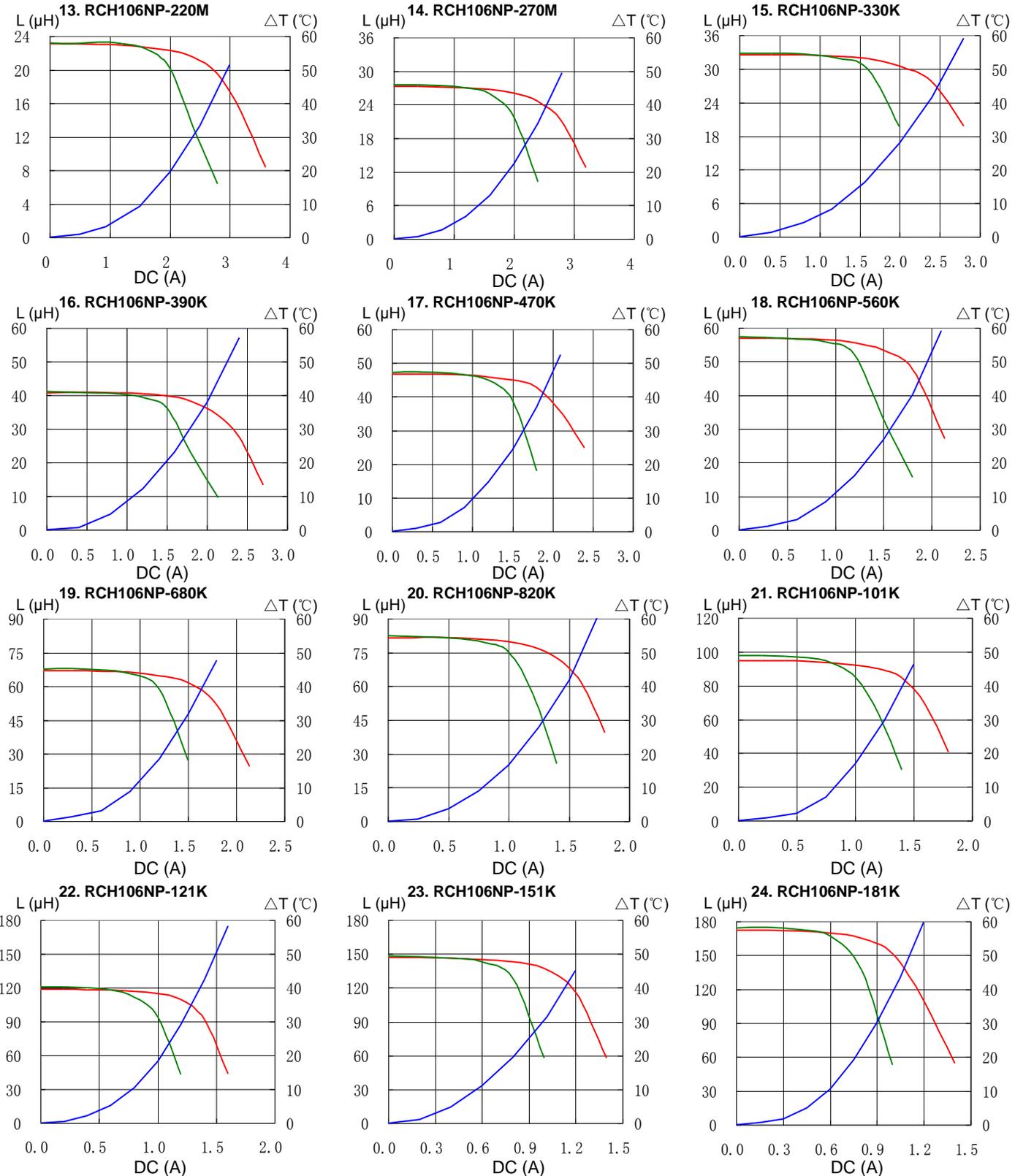


PIN Power Inductor RCH-106

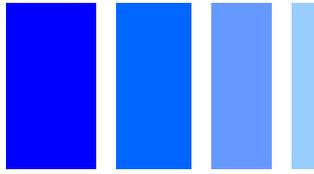


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

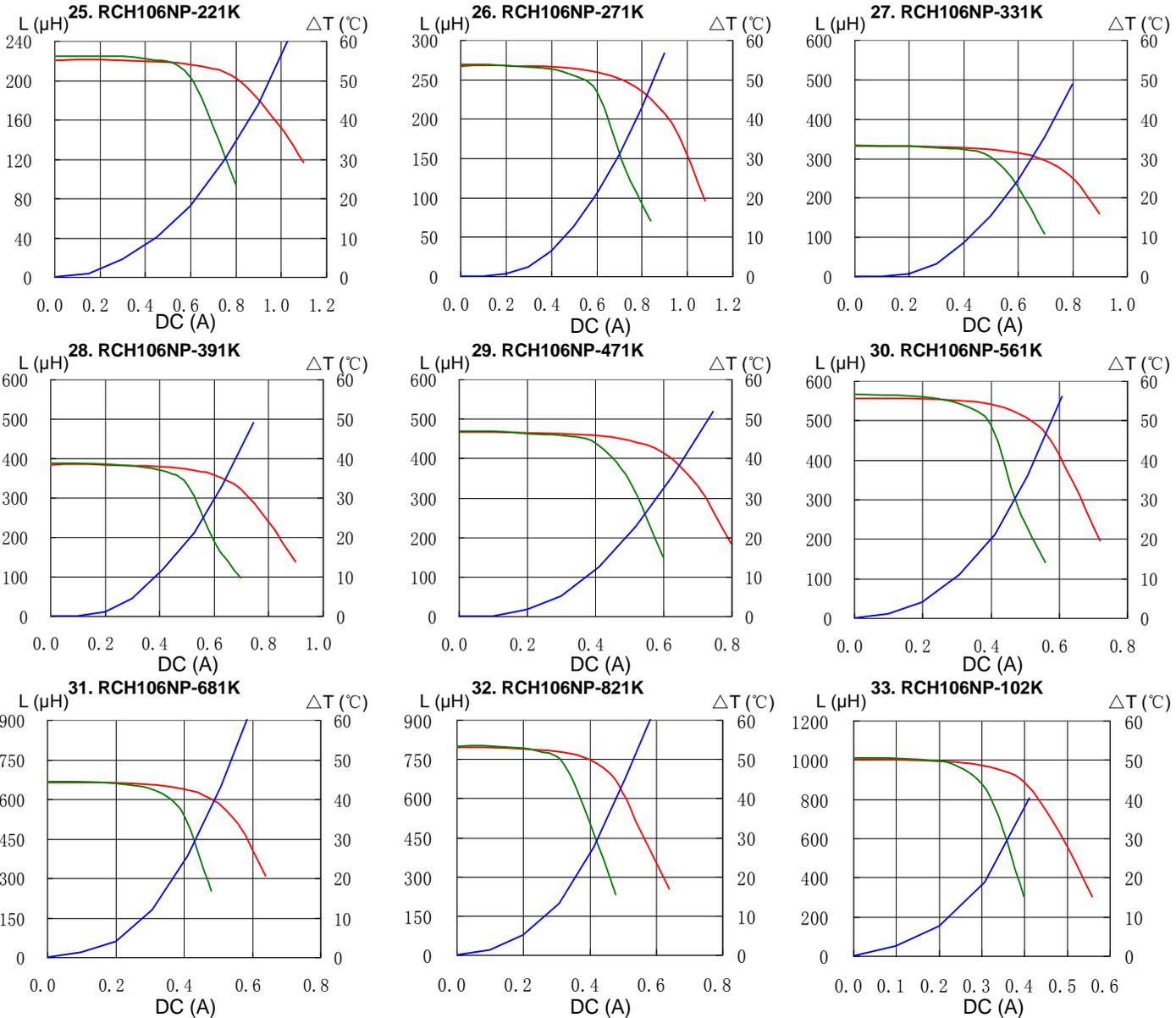


PIN Power Inductor RCH-106



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



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