

# 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

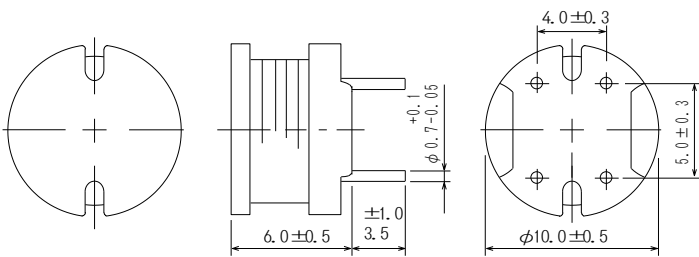
## Packaging

- Box packaging.

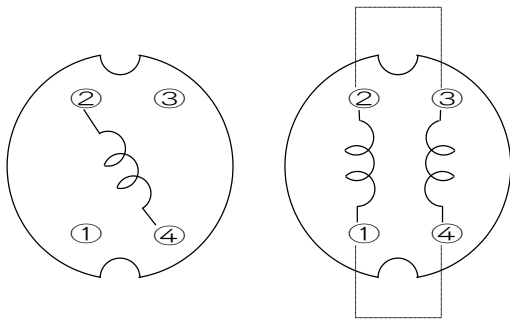
## Applications

- 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

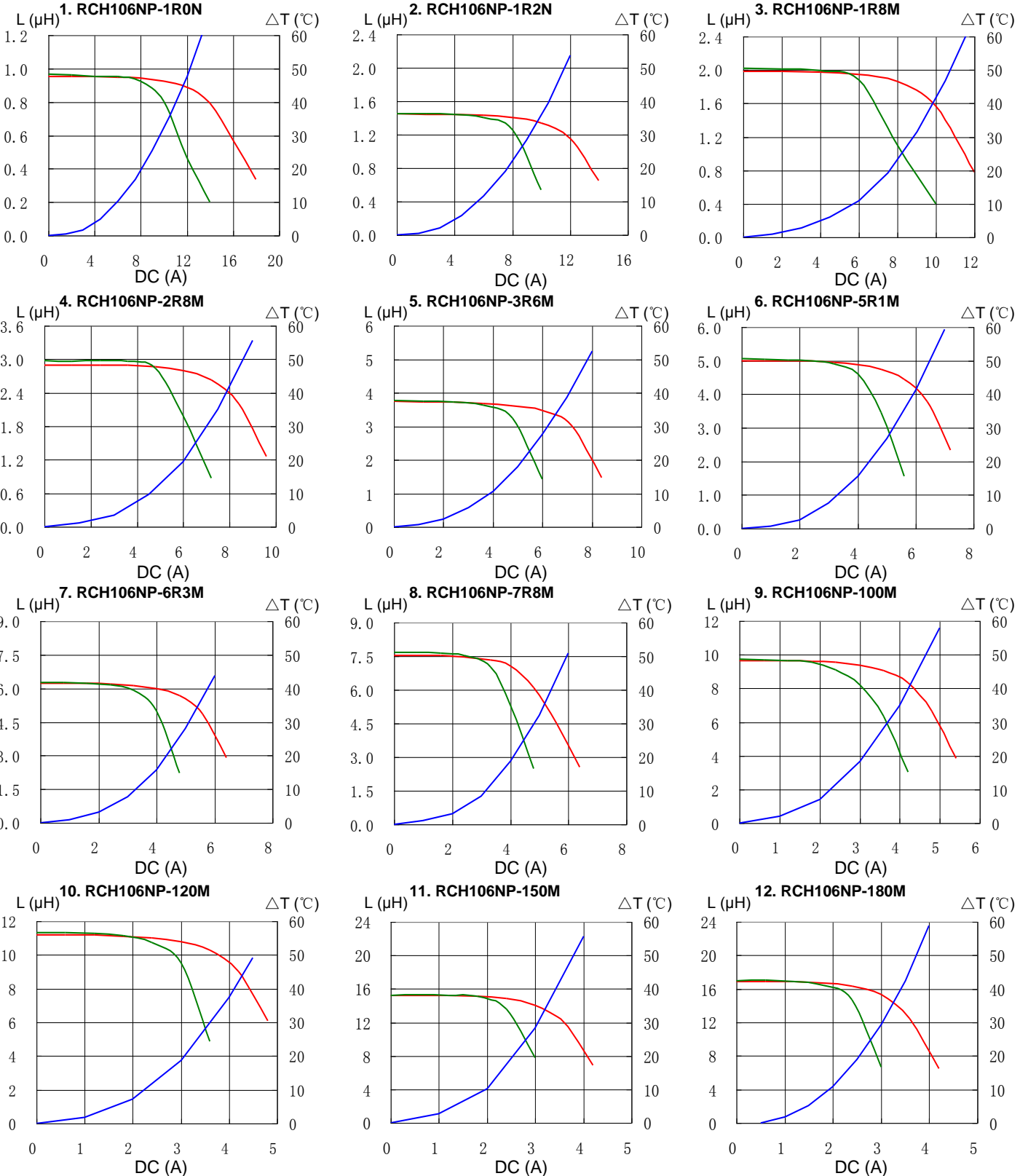
※2: The rated current indicates the lower value of current when the inductance is 10% lower than its initial value at D.C. superposition or the temperature of coil rises 40°C with D.C. current passing. (Ta=20°C)

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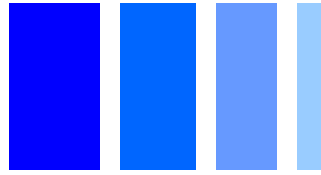


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

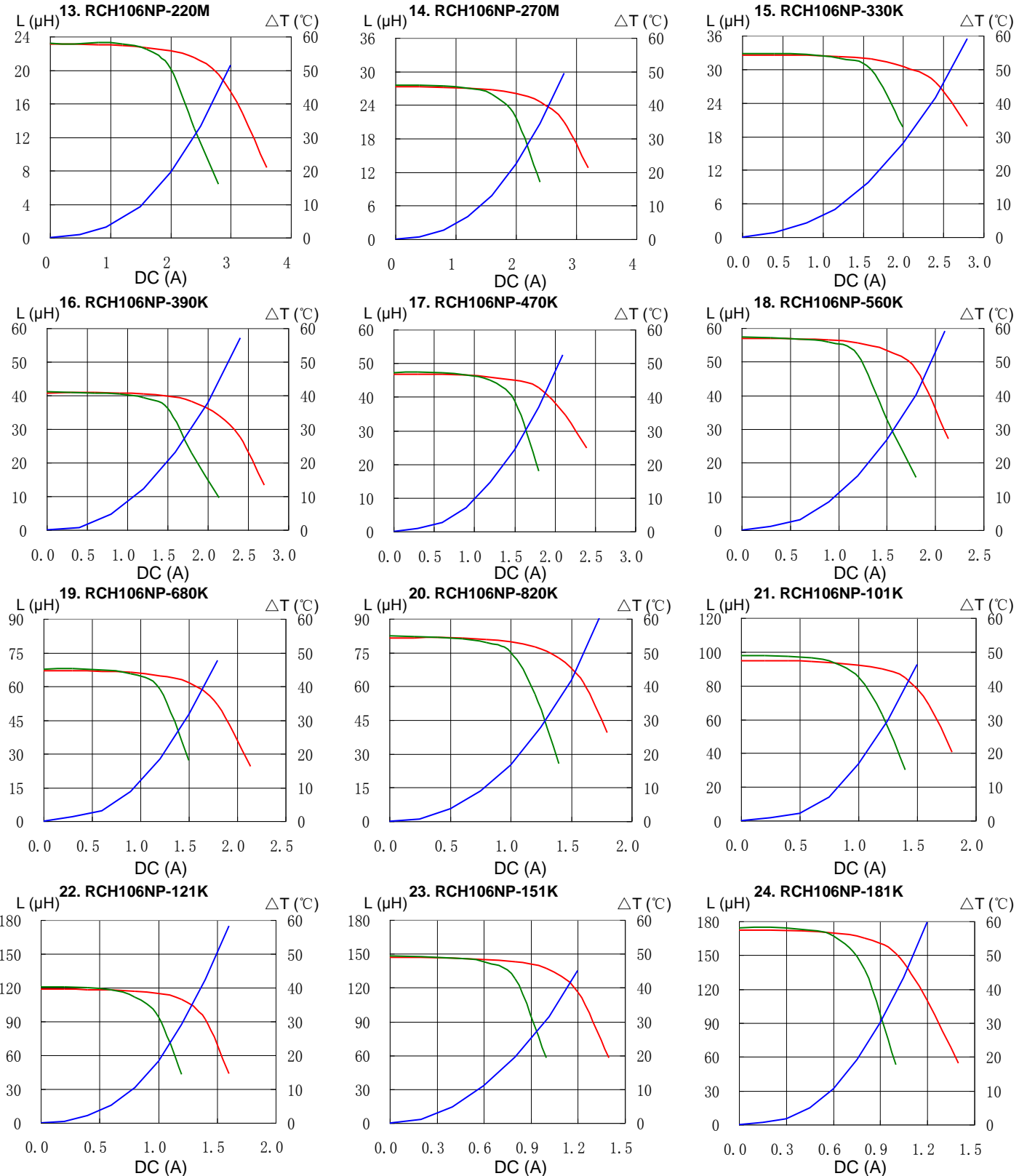


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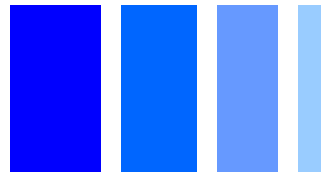


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

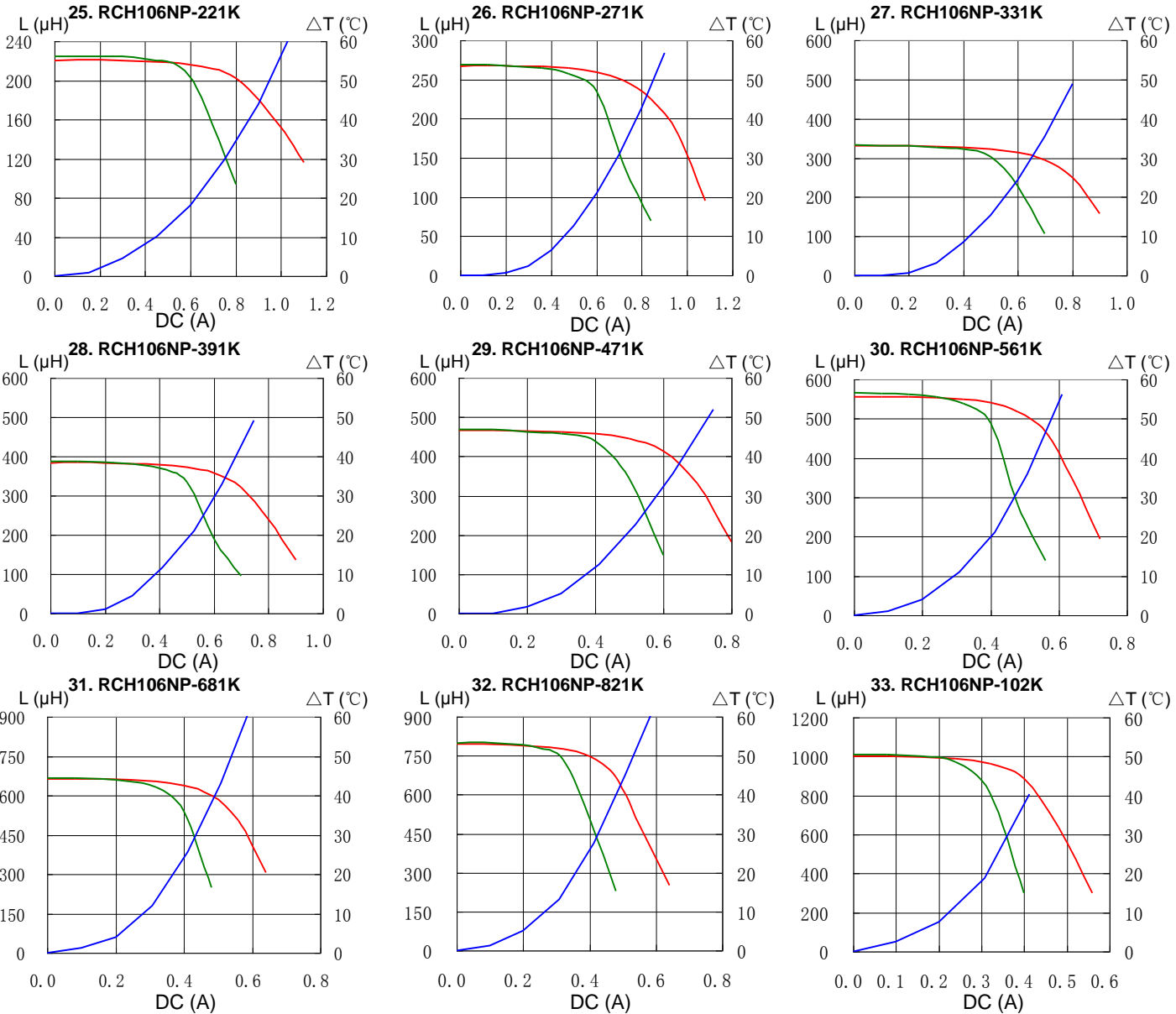


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



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