

# PIN Power Inductor RCH-108



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 8.5mm Max.
- Product weight: 2.4g(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

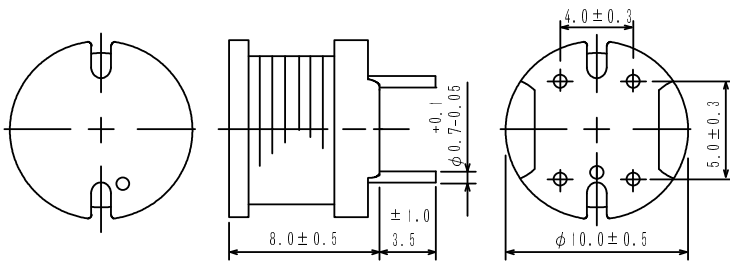
## Packaging

- Box packaging.

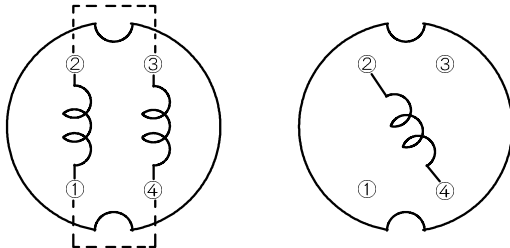
## Applications

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

## Dimension - [mm]



## Schematics - [mm]



(2.2  $\mu$  H ~ 15  $\mu$  H)

(18  $\mu$  H ~ 1.0mH)

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## Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D. C. R. ( $\Omega$ ) [MAX.] (at 20°C)	RATED CURRENT (A) ※2
RCH108NP-2R2M	2R2M	2.2 $\mu$ H $\pm$ 20 %	8.5m	7.9
RCH108NP-2R7M	2R7M	2.7 $\mu$ H $\pm$ 20 %	9.6m	7.2
RCH108NP-3R7M	3R7M	3.7 $\mu$ H $\pm$ 20 %	10.9	6.3
RCH108NP-4R7M	4R7M	4.7 $\mu$ H $\pm$ 20 %	11.7m	5.7
RCH108NP-6R2M	6R2M	6.2 $\mu$ H $\pm$ 20 %	15.3m	5.3
RCH108NP-8R2M	8R2M	8.2 $\mu$ H $\pm$ 20 %	17.0m	5.0
RCH108NP-100M	100M	10 $\mu$ H $\pm$ 20 %	0.027	4.5
RCH108NP-120M	120M	12 $\mu$ H $\pm$ 20 %	0.031	4.1
RCH108NP-150M	150M	15 $\mu$ H $\pm$ 20 %	0.036	3.7
RCH108NP-180M	180M	18 $\mu$ H $\pm$ 20 %	0.049	3.4
RCH108NP-220M	220M	22 $\mu$ H $\pm$ 20 %	0.055	3.1
RCH108NP-270M	270M	27 $\mu$ H $\pm$ 20 %	0.062	2.8
RCH108NP-330K	330K	33 $\mu$ H $\pm$ 10 %	0.079	2.5
RCH108NP-390K	390K	39 $\mu$ H $\pm$ 10 %	0.087	2.3
RCH108NP-470K	470K	47 $\mu$ H $\pm$ 10 %	0.099	2.1
RCH108NP-560K	560K	56 $\mu$ H $\pm$ 10 %	0.13	1.9
RCH108NP-680K	680K	68 $\mu$ H $\pm$ 10 %	0.14	1.7
RCH108NP-820K	820K	82 $\mu$ H $\pm$ 10 %	0.16	1.6
RCH108NP-101K	101K	100 $\mu$ H $\pm$ 10 %	0.21	1.4
RCH108NP-121K	121K	120 $\mu$ H $\pm$ 10 %	0.24	1.3
RCH108NP-151K	151K	150 $\mu$ H $\pm$ 10 %	0.32	1.2
RCH108NP-181K	181K	180 $\mu$ H $\pm$ 10 %	0.35	1.1
RCH108NP-221K	221K	220 $\mu$ H $\pm$ 10 %	0.45	0.96
RCH108NP-271K	271K	270 $\mu$ H $\pm$ 10 %	0.61	0.87
RCH108NP-331K	331K	330 $\mu$ H $\pm$ 10 %	0.69	0.79
RCH108NP-391K	391K	390 $\mu$ H $\pm$ 10 %	0.78	0.72
RCH108NP-471K	471K	470 $\mu$ H $\pm$ 10 %	1.0	0.66
RCH108NP-561K	561K	560 $\mu$ H $\pm$ 10 %	1.2	0.60
RCH108NP-681K	681K	680 $\mu$ H $\pm$ 10 %	1.4	0.55
RCH108NP-821K	821K	820 $\mu$ H $\pm$ 10 %	1.8	0.50
RCH108NP-102K	102K	1.0mH $\pm$ 10 %	2.1	0.45

※1: Inductance measuring condition: 2.2  $\mu$ H~8.2  $\mu$ H at 7.96MHz  
10  $\mu$ H~1.0mH at 1kHz

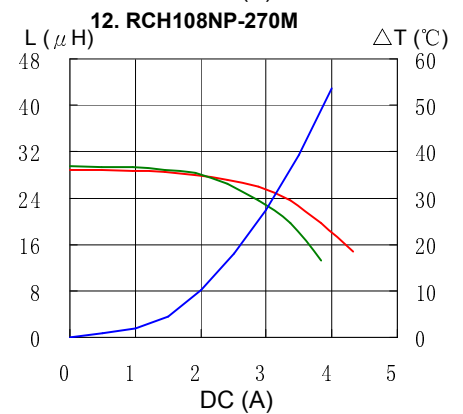
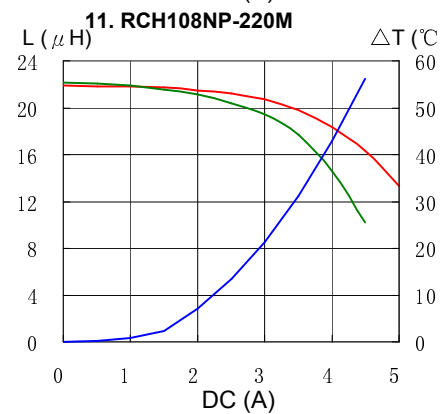
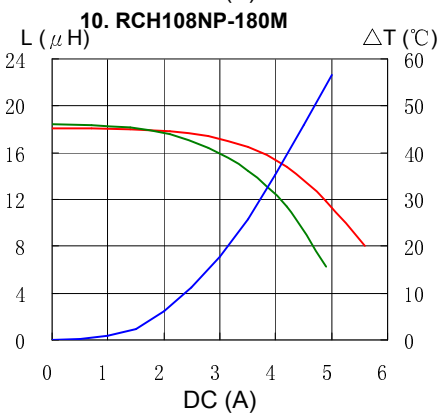
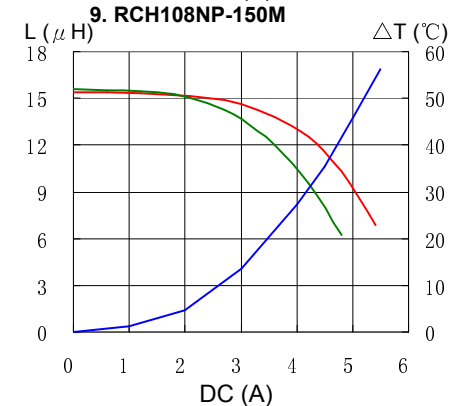
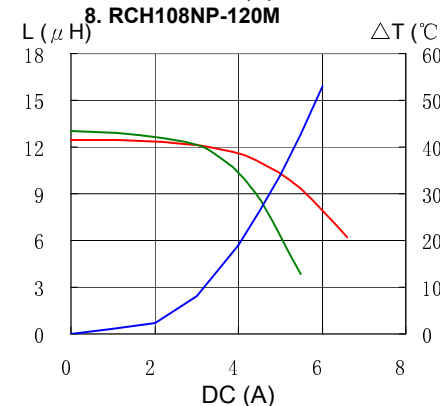
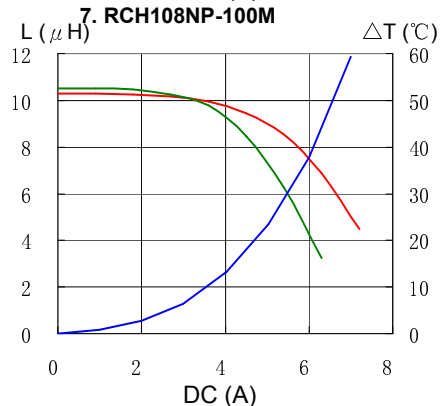
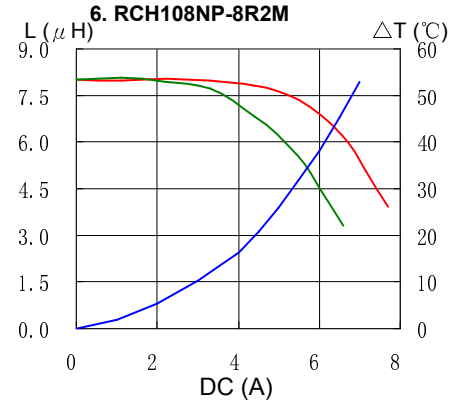
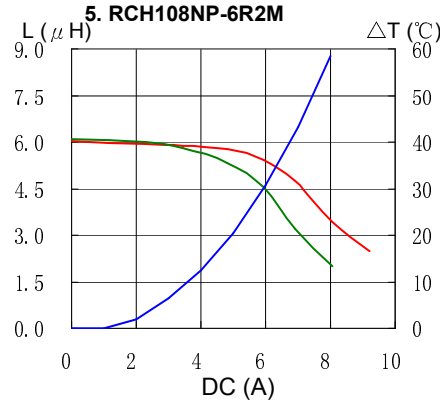
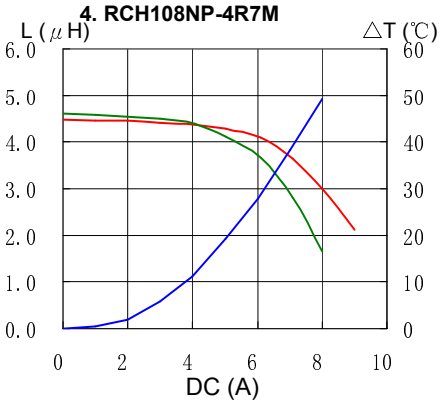
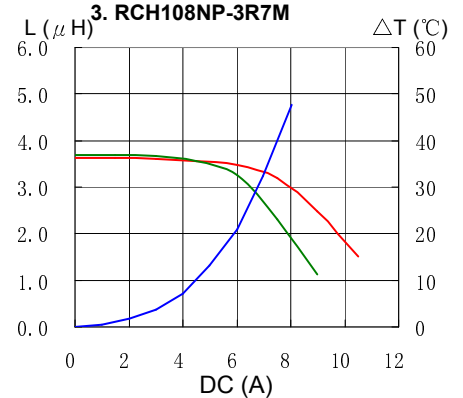
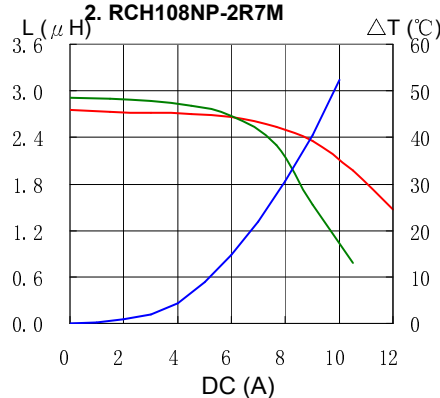
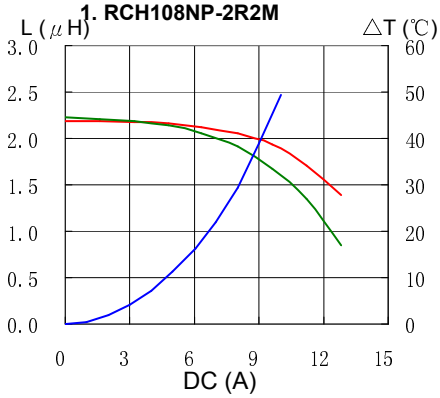
※2: The rated current indicates the lower value of current when the inductance is 10% lower than its initial value at D.C. superposition or the temperature of coil rises 40°C with D.C. current passing. (Ta=20°C)

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

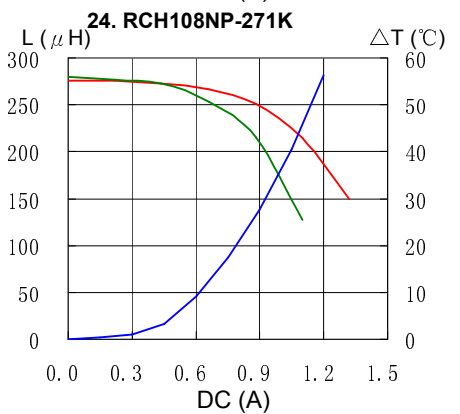
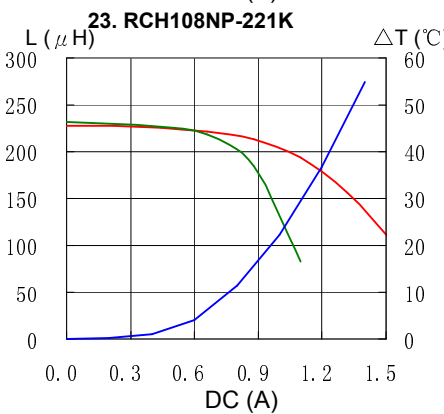
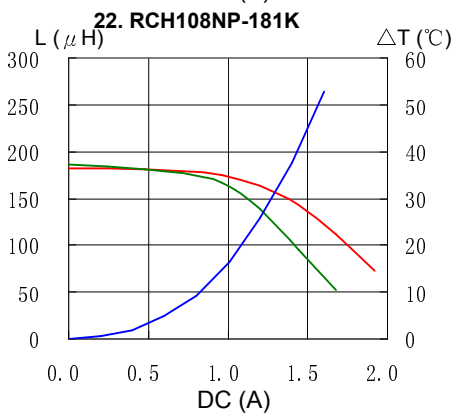
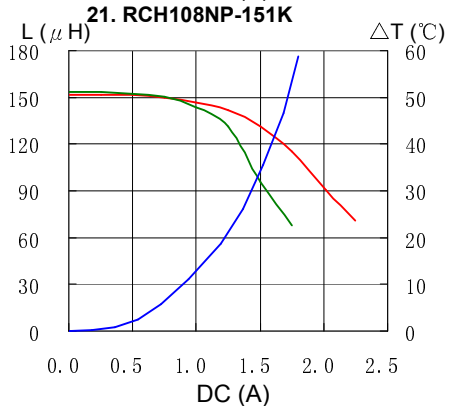
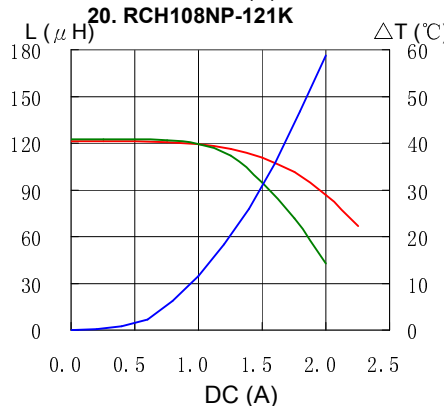
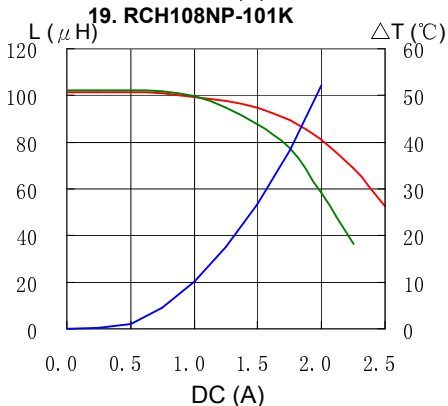
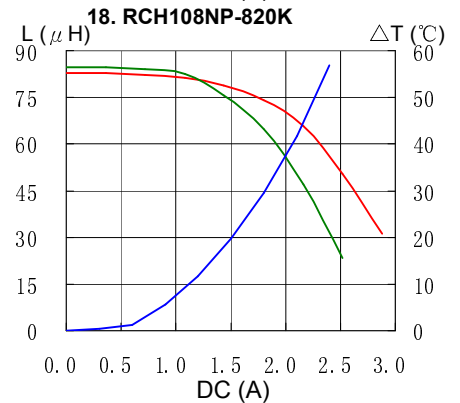
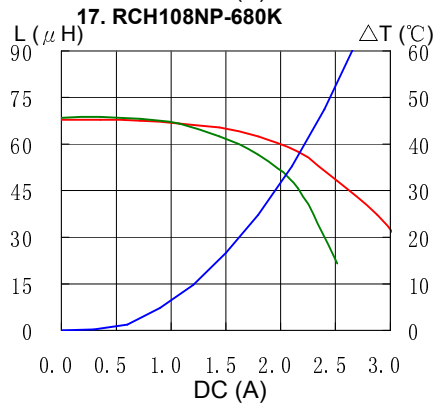
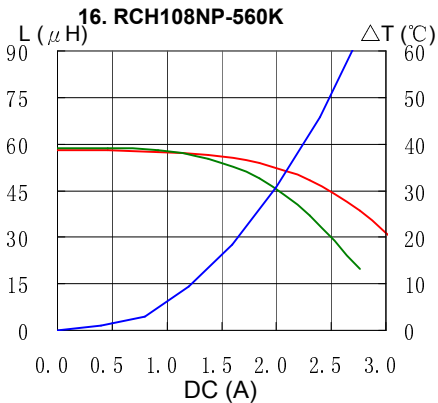
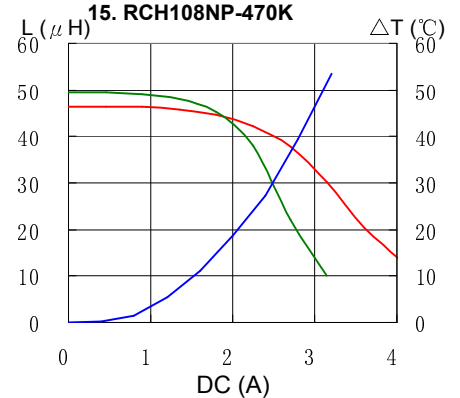
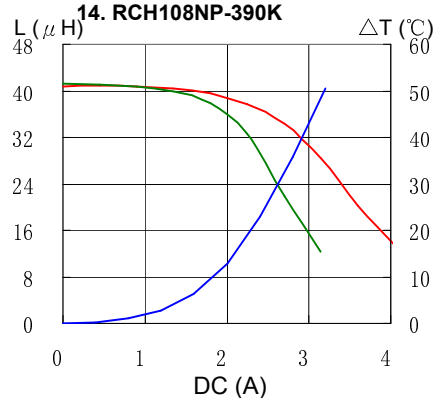
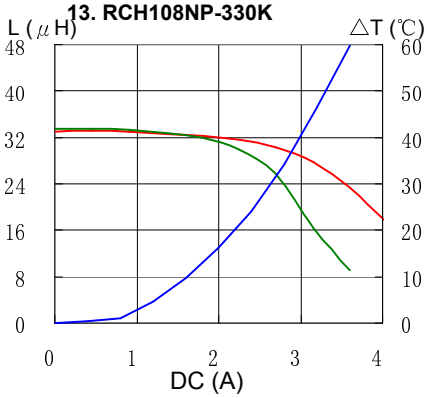


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

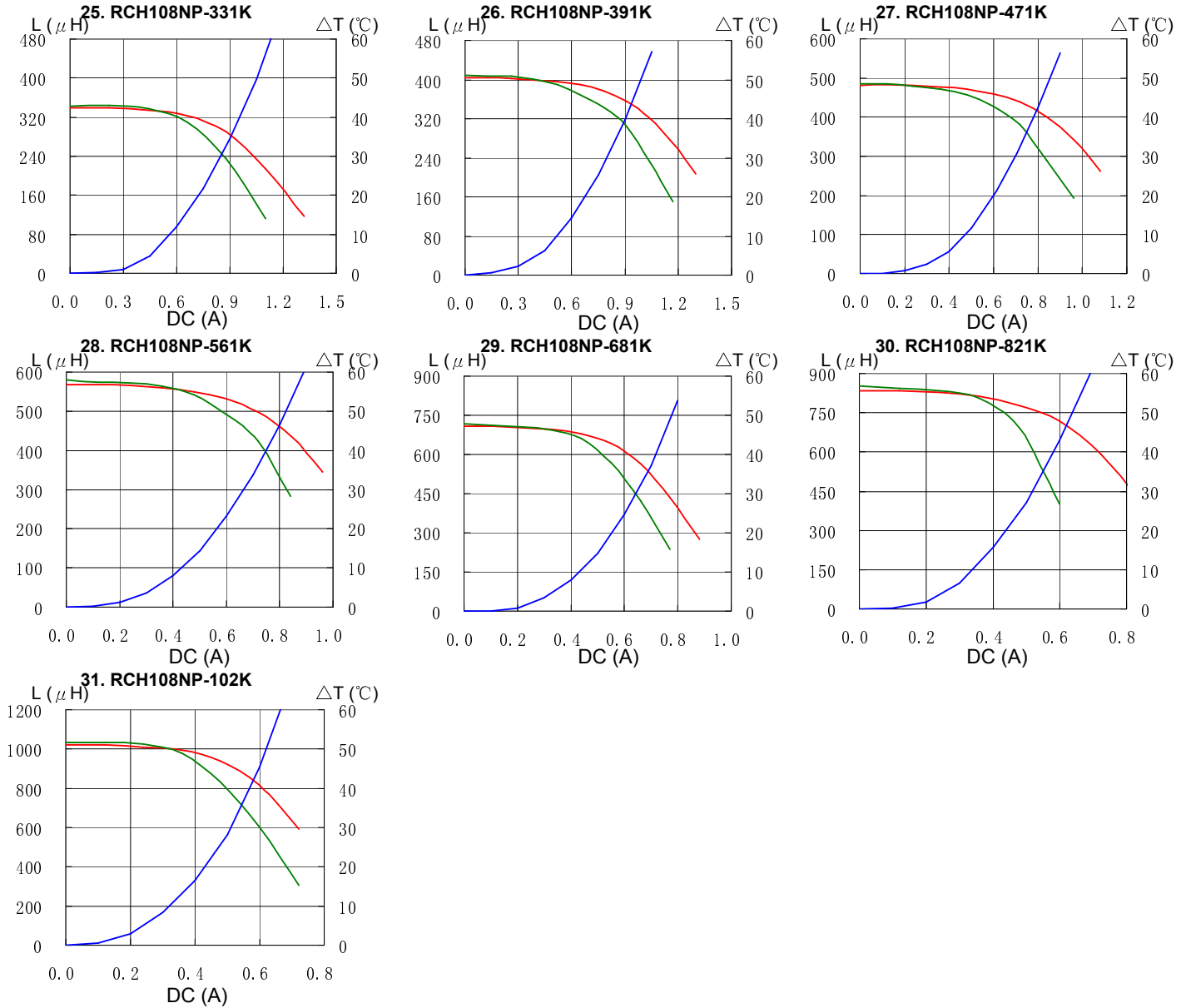


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— L (20°C) — L (100°C) —  $\Delta T$



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