

# PIN Power Inductor RCH-110



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 3.1g(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

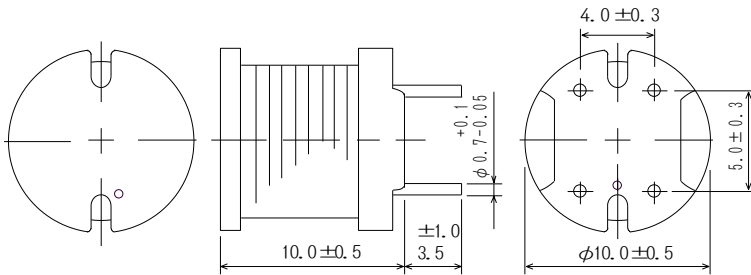
## Packaging

- Box packaging.

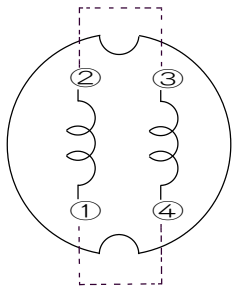
## Applications

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

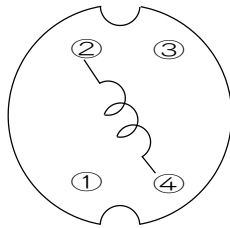
## Dimension - [mm]



## Schematics - [mm]



(10  $\mu$ H ~ 33  $\mu$ H)



(39  $\mu$ H ~ 1mH)



### Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. ( $\Omega$ ) [MAX.] (at 20°C)	RATED CURRENT (A) ※2	S.R.F. (MHz) TYP.
RCH110NP-100M	100M	10 $\mu$ H $\pm$ 20%	0.022	5.3	14
RCH110NP-120M	120M	12 $\mu$ H $\pm$ 20%	0.023	4.9	11
RCH110NP-150M	150M	15 $\mu$ H $\pm$ 20%	0.026	4.4	7.7
RCH110NP-180M	180M	18 $\mu$ H $\pm$ 20%	0.033	4.0	7.1
RCH110NP-220M	220M	22 $\mu$ H $\pm$ 20%	0.037	3.6	6.8
RCH110NP-270M	270M	27 $\mu$ H $\pm$ 20%	0.048	3.3	6.1
RCH110NP-330K	330K	33 $\mu$ H $\pm$ 10%	0.055	2.9	6.0
RCH110NP-390K	390K	39 $\mu$ H $\pm$ 10%	0.073	2.7	8.6
RCH110NP-470K	470K	47 $\mu$ H $\pm$ 10%	0.083	2.5	8.1
RCH110NP-560K	560K	56 $\mu$ H $\pm$ 10%	0.092	2.3	7.6
RCH110NP-680K	680K	68 $\mu$ H $\pm$ 10%	0.12	2.1	6.3
RCH110NP-820K	820K	82 $\mu$ H $\pm$ 10%	0.14	1.9	6.0
RCH110NP-101K	101K	100 $\mu$ H $\pm$ 10%	0.16	1.7	5.7
RCH110NP-121K	121K	120 $\mu$ H $\pm$ 10%	0.20	1.5	4.8
RCH110NP-151K	151K	150 $\mu$ H $\pm$ 10%	0.23	1.4	4.2
RCH110NP-181K	181K	180 $\mu$ H $\pm$ 10%	0.31	1.3	3.9
RCH110NP-221K	221K	220 $\mu$ H $\pm$ 10%	0.34	1.1	3.8
RCH110NP-271K	271K	270 $\mu$ H $\pm$ 10%	0.40	1.0	3.4
RCH110NP-331K	331K	330 $\mu$ H $\pm$ 10%	0.52	0.93	2.8
RCH110NP-391K	391K	390 $\mu$ H $\pm$ 10%	0.65	0.86	2.7
RCH110NP-471K	471K	470 $\mu$ H $\pm$ 10%	0.71	0.78	2.5
RCH110NP-561K	561K	560 $\mu$ H $\pm$ 10%	1.0	0.71	2.2
RCH110NP-681K	681K	680 $\mu$ H $\pm$ 10%	1.1	0.65	2.1
RCH110NP-821K	821K	820 $\mu$ H $\pm$ 10%	1.3	0.59	2.0
RCH110NP-102K	102K	1.0 mH $\pm$ 10%	1.7	0.53	1.7

※1. Inductance measuring condition : at 1.0kHz

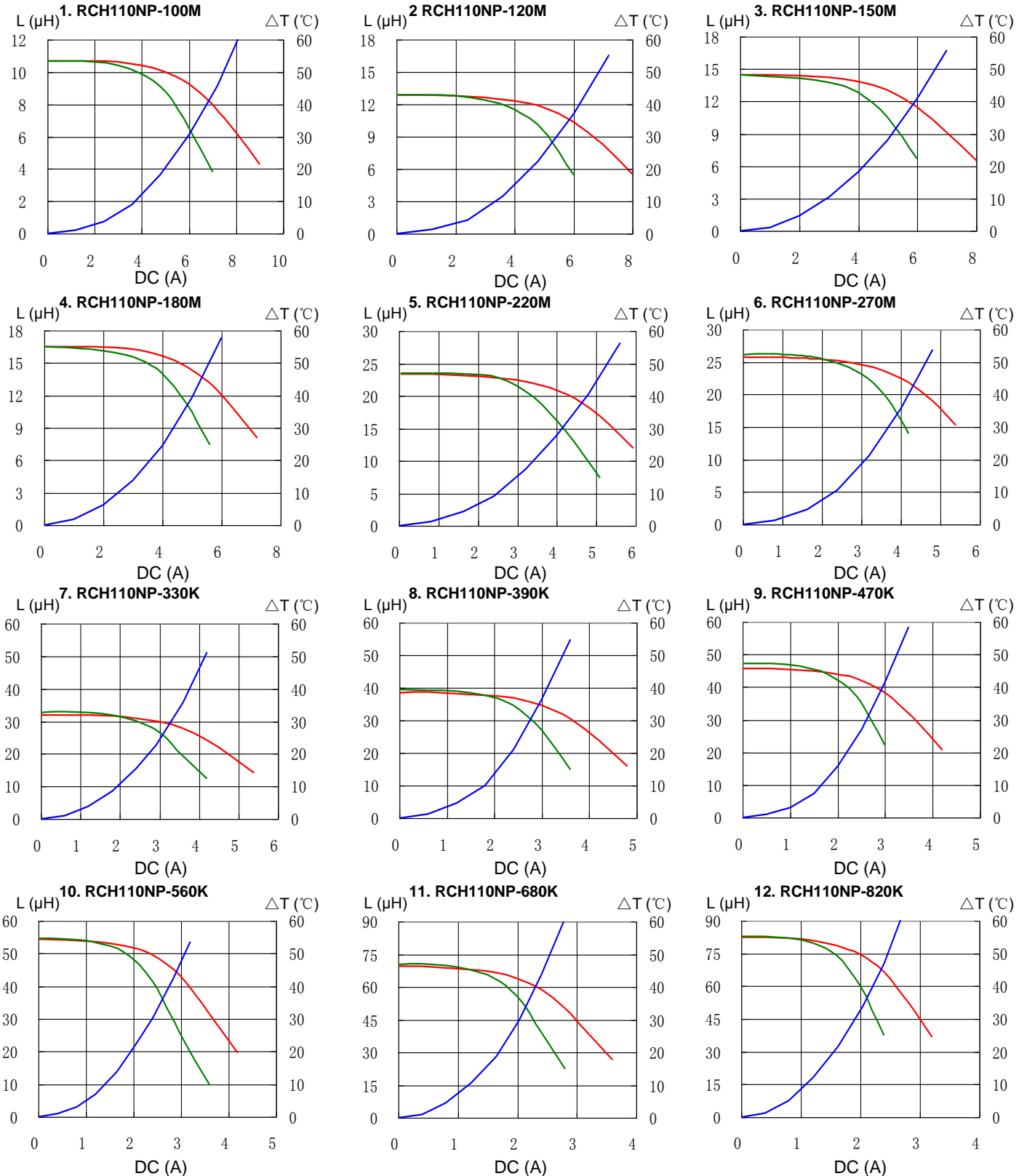
※2. This indicates the value of current when the inductance 10% lower than its initial value or D.C current when  $\Delta T = 40^\circ\text{C}$ , whichever is lower ( $T_a = 20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

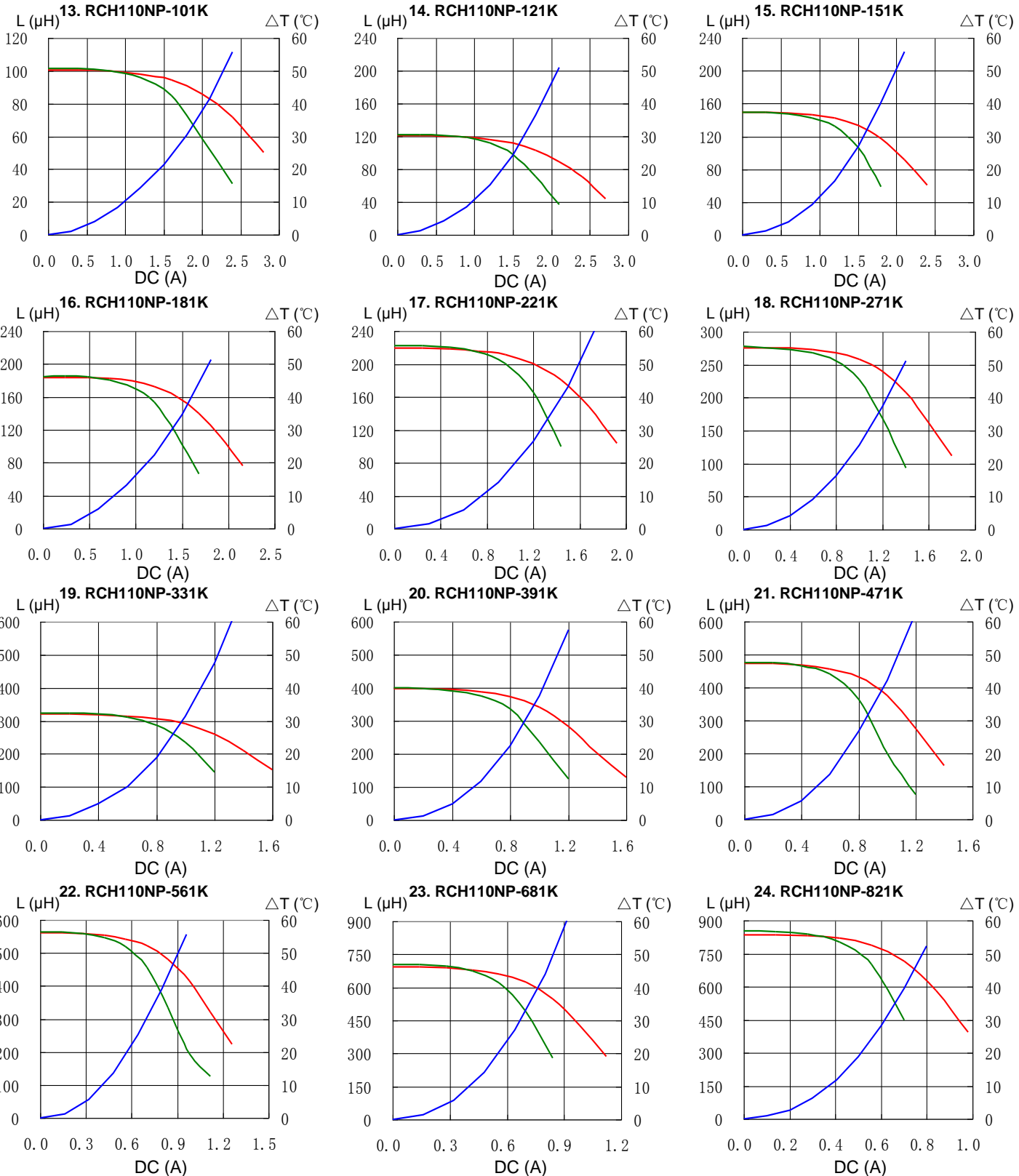


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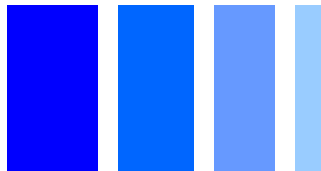


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— L (20°C) — L (100°C) —  $\Delta T$

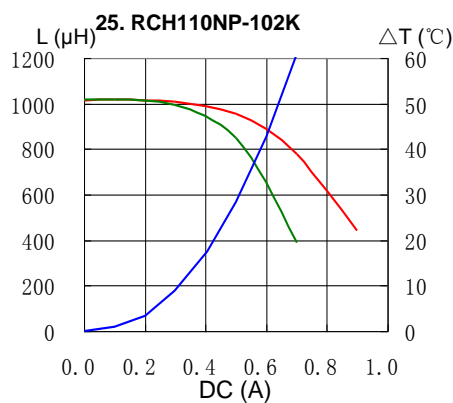


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



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