

# PIN Power Inductor RCH-114



Halogen  
Free



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 14.4mm Max.
- Product weight: 4.7g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C

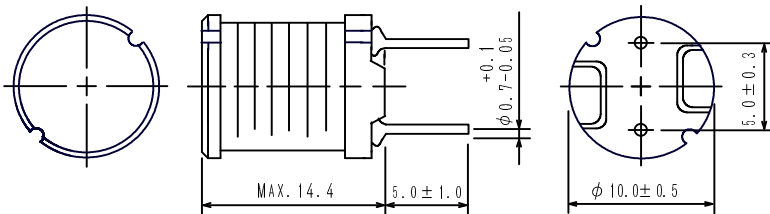
## Packaging

- Box packaging.

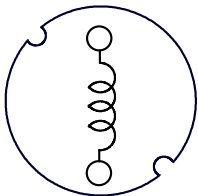
## Applications

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

## Dimension - [mm]



## Schematics - [mm]



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## Electrical Characteristics

PART NO.	STAMP	INDUCTANCE (WITHIN) ※1	D. C. R. (mΩ) (MAX.) at 20°C	RATED CURRENT (A) ※2
RCH114NP-6R3MB	6R3	6.3 μH ± 20 %	26 (20)	4.3
RCH114NP-7R5MB	7R5	7.5 μH ± 20 %	29 (22)	4.2
RCH114NP-8R8MB	8R8	8.8 μH ± 20 %	30 (23)	4.1
RCH114NP-100KB	100	10 μH ± 10 %	33 (25)	4.0
RCH114NP-120KB	120	12 μH ± 10 %	35 (27)	3.9
RCH114NP-150KB	150	15 μH ± 10 %	39 (30)	3.7
RCH114NP-180KB	180	18 μH ± 10 %	47 (36)	3.5
RCH114NP-220KB	220	22 μH ± 10 %	51 (39)	3.3
RCH114NP-270KB	270	27 μH ± 10 %	57 (44)	3.1
RCH114NP-330KB	330	33 μH ± 10 %	64 (49)	2.9
RCH114NP-390KB	390	39 μH ± 10 %	74 (57)	2.7
RCH114NP-470KB	470	47 μH ± 10 %	83 (64)	2.5
RCH114NP-560KB	560	56 μH ± 10 %	104 (80)	2.3
RCH114NP-680KB	680	68 μH ± 10 %	117 (90)	2.1
RCH114NP-820KB	820	82 μH ± 10 %	130 (100)	1.9
RCH114NP-101KB	101	100 μH ± 10 %	143 (110)	1.7
RCH114NP-121KB	121	120 μH ± 10 %	195 (150)	1.5
RCH114NP-151KB	151	150 μH ± 10 %	221 (170)	1.4
RCH114NP-181KB	181	180 μH ± 10 %	260 (200)	1.3
RCH114NP-221KB	221	220 μH ± 10 %	350 (270)	1.2
RCH114NP-271KB	271	270 μH ± 10 %	390 (300)	1.1
RCH114NP-331KB	331	330 μH ± 10 %	520 (400)	1.0
RCH114NP-391KB	391	390 μH ± 10 %	570 (440)	0.92
RCH114NP-471KB	471	470 μH ± 10 %	650 (500)	0.84
RCH114NP-561KB	561	560 μH ± 10 %	0.79 (0.61)	0.75
RCH114NP-681KB	681	680 μH ± 10 %	0.96 (0.74)	0.69
RCH114NP-821KB	821	820 μH ± 10 %	1.22 (0.94)	0.62
RCH114NP-102KB	102	1.0 mH ± 10 %	1.6 (1.3)	0.52
RCH114NP-122KB	122	1.2 mH ± 10 %	2.2 (1.8)	0.46
RCH114NP-152KB	152	1.5 mH ± 10 %	2.5 (2.0)	0.41
RCH114NP-182KB	182	1.8 mH ± 10 %	2.9 (2.3)	0.36
RCH114NP-222KB	222	2.2 mH ± 10 %	3.2 (2.6)	0.32
RCH114NP-272KB	272	2.7 mH ± 10 %	3.7 (3.0)	0.29
RCH114NP-332KB	332	3.3 mH ± 10 %	5.0 (4.0)	0.27
RCH114NP-392KB	392	3.9 mH ± 10 %	5.6 (4.5)	0.25
RCH114NP-472KB	472	4.7 mH ± 10 %	7.4 (5.9)	0.23
RCH114NP-562KB	562	5.6 mH ± 10 %	8.2 (6.6)	0.21
RCH114NP-682KB	682	6.8 mH ± 10 %	11.9 (9.5)	0.19
RCH114NP-822KB	822	8.2 mH ± 10 %	14 (11)	0.17
RCH114NP-103KB	103	10 mH ± 10 %	16 (13)	0.16
RCH114NP-123KB	123	12 mH ± 10 %	21 (17)	0.15
RCH114NP-153KB	153	15 mH ± 10 %	24 (19)	0.14
RCH114NP-183KB	183	18 mH ± 10 %	27 (22)	0.13
RCH114NP-223KB	223	22 mH ± 10 %	34 (27)	0.12
RCH114NP-273KB	273	27 mH ± 10 %	39 (31)	0.11
RCH114NP-333KB	333	33 mH ± 10 %	51 (41)	0.10
RCH114NP-393KB	393	39 mH ± 10 %	58 (46)	0.09

※1. Inductance measuring condition : inductance 6.3 μH~8.8 μH at 7.96MHz  
10 μH~39mH at 1.0kHz

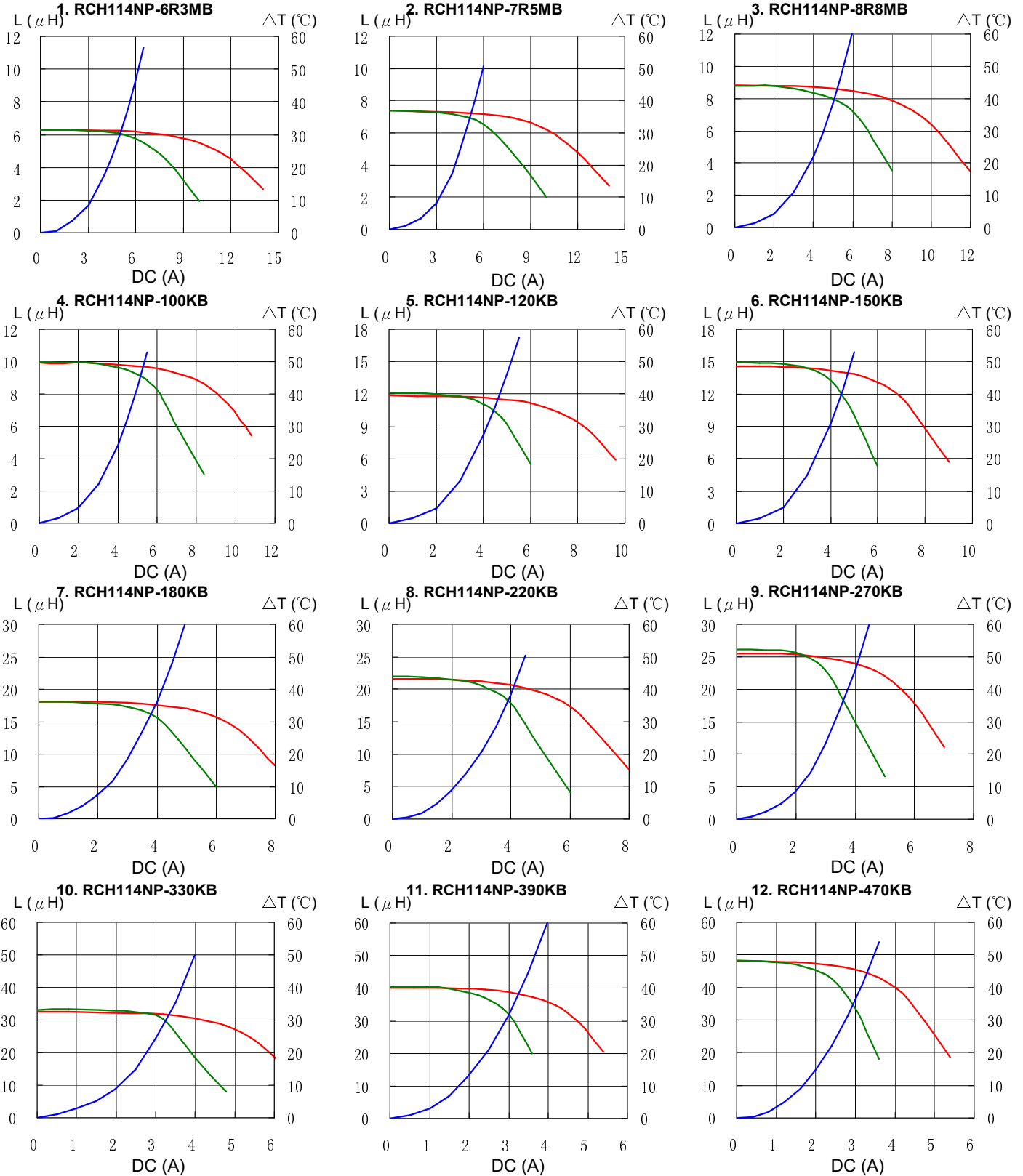
※2. This indicates the value of current when the inductance 10% lower than its initial value or D.C current when ΔT=40°C, whichever is lower (Ta=20°C).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

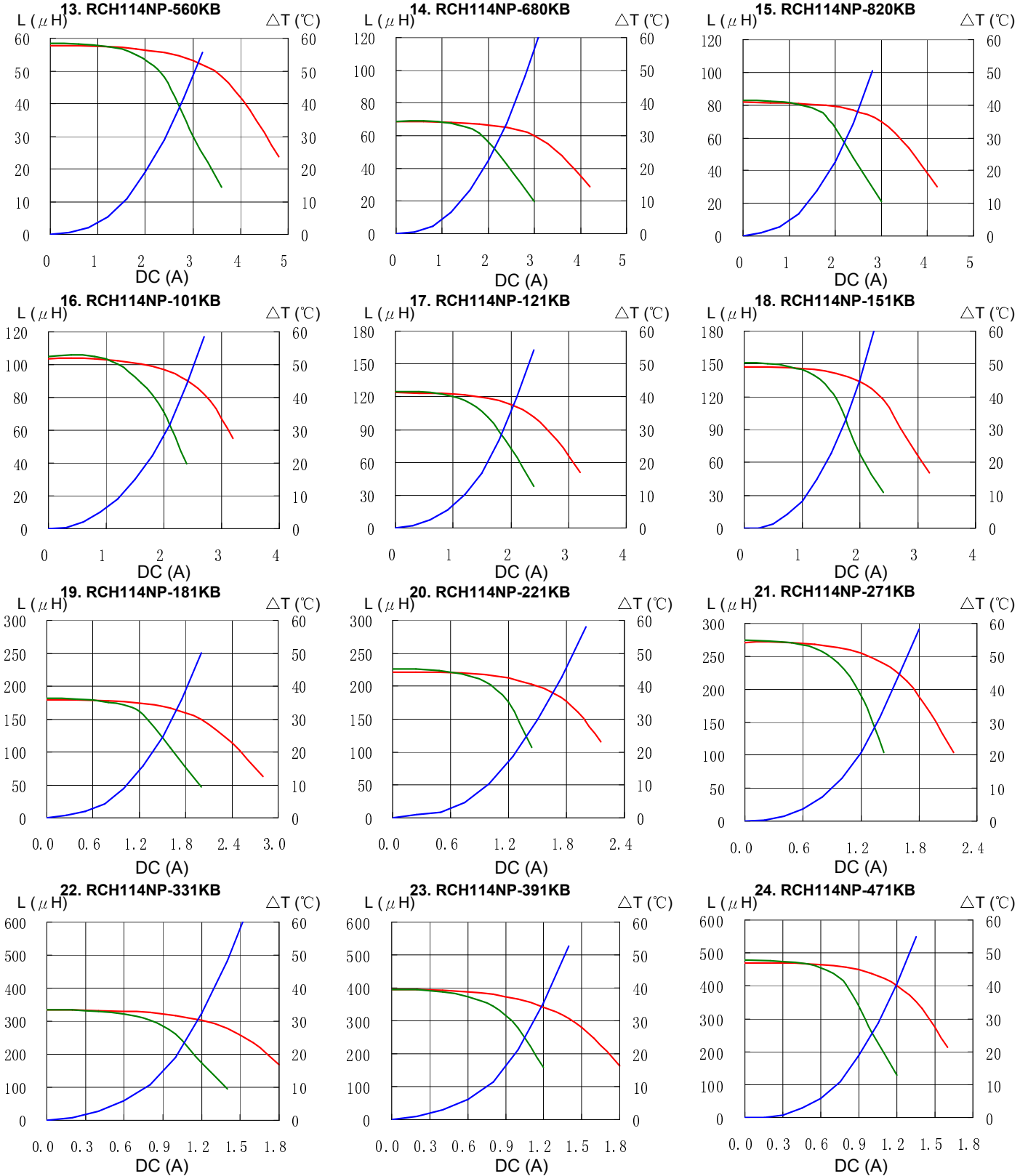


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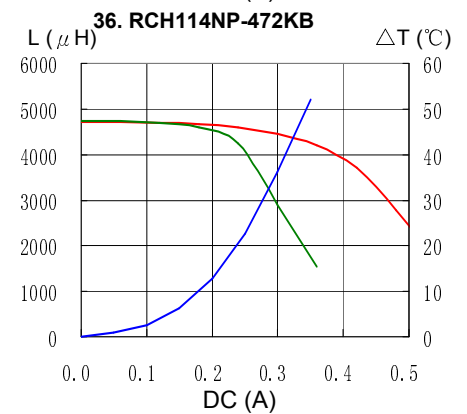
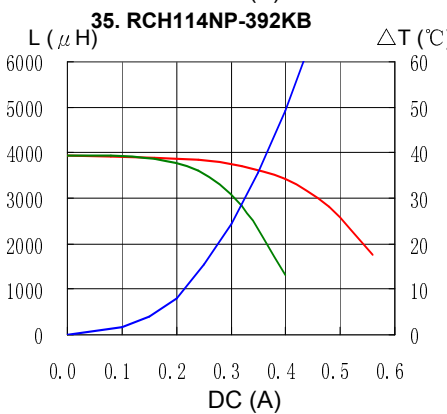
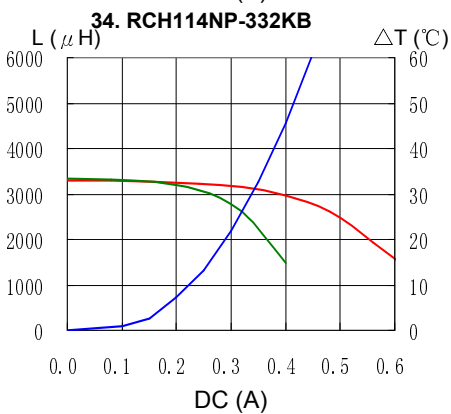
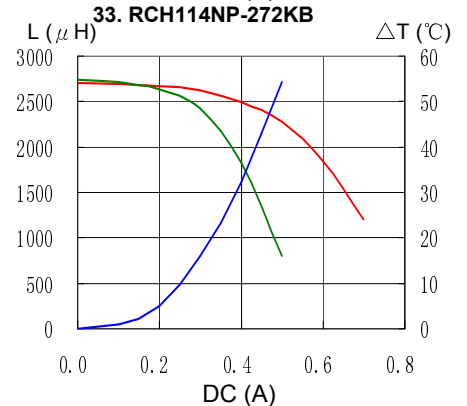
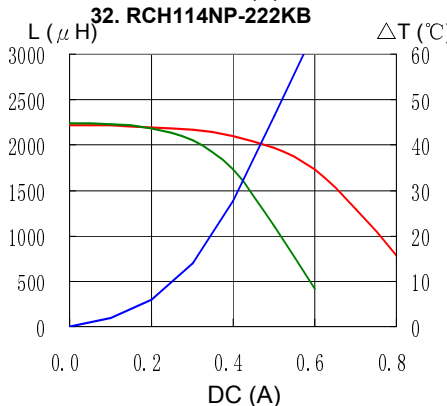
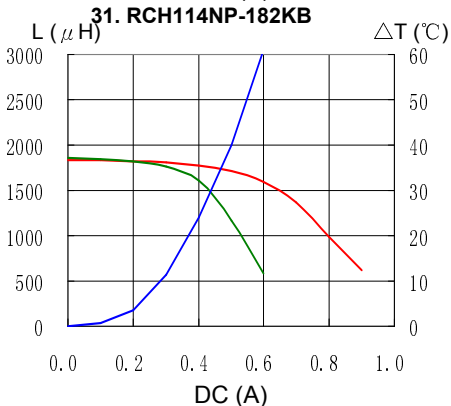
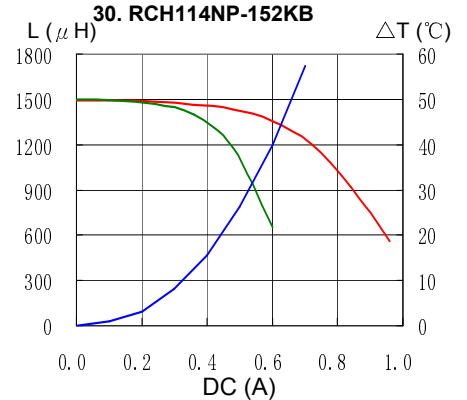
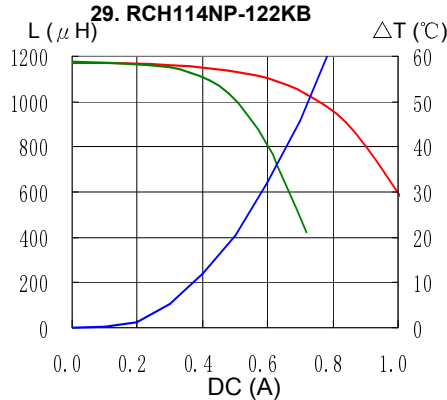
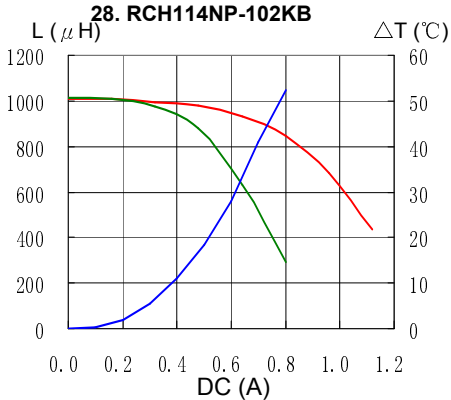
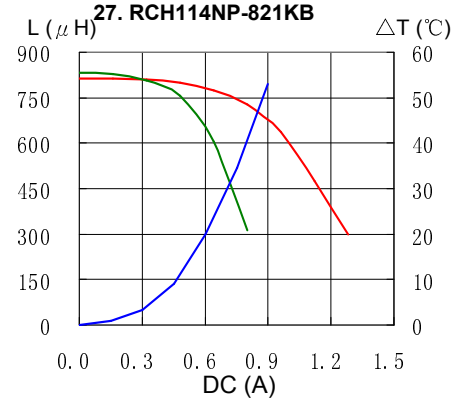
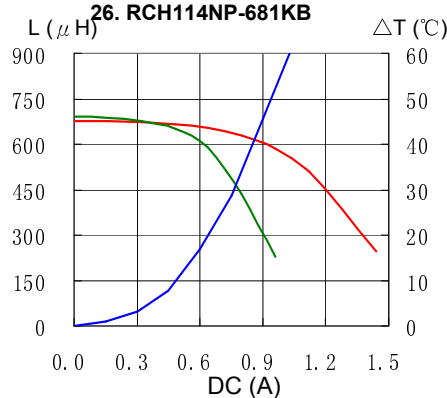
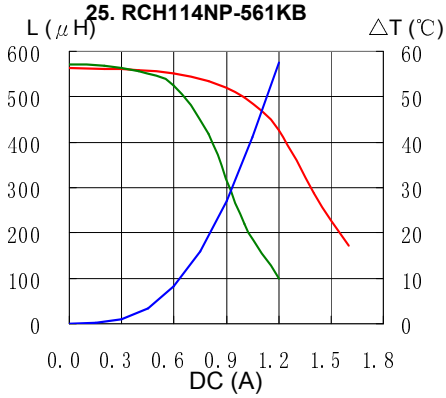


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— L (20°C) — L (100°C) —  $\Delta T$

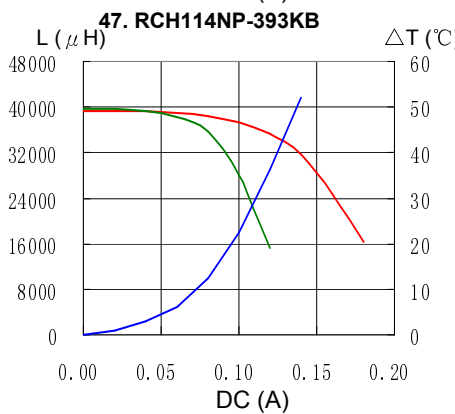
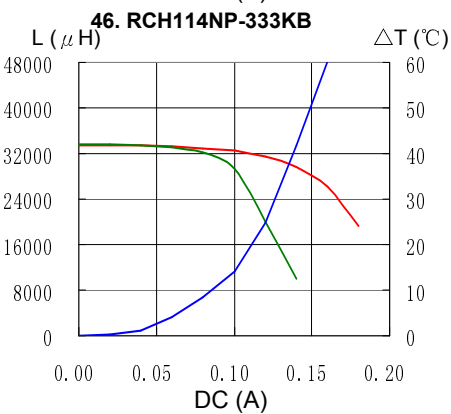
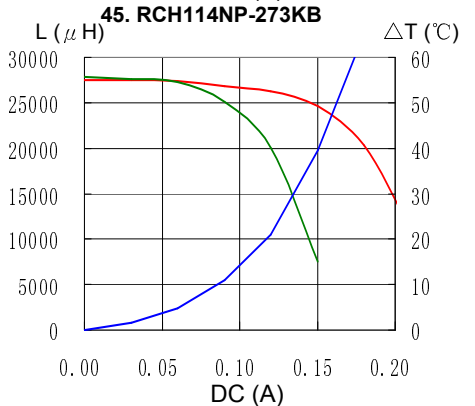
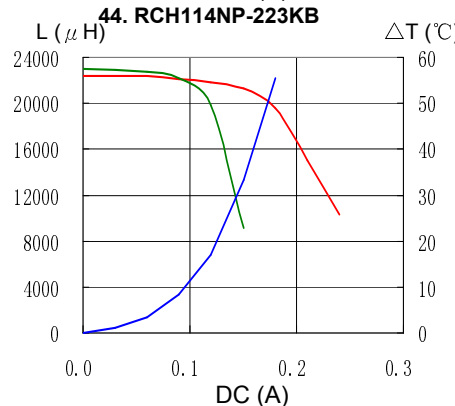
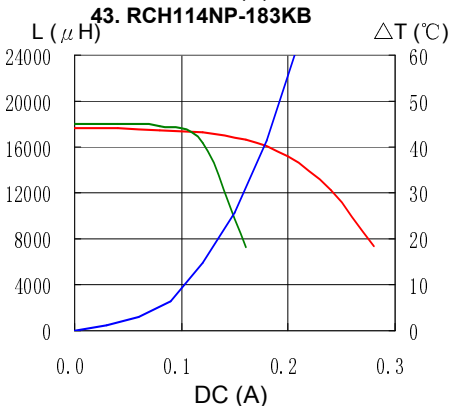
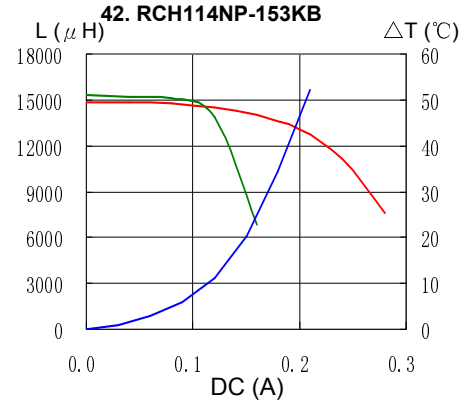
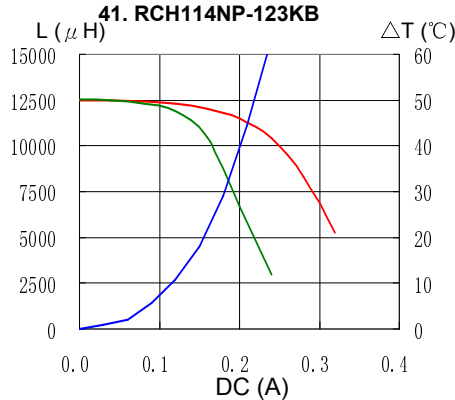
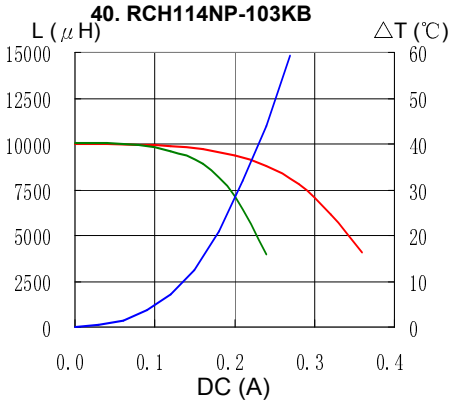
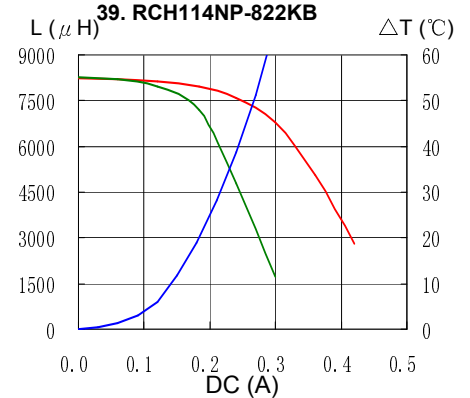
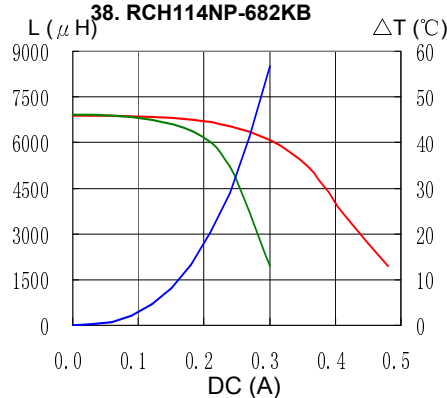
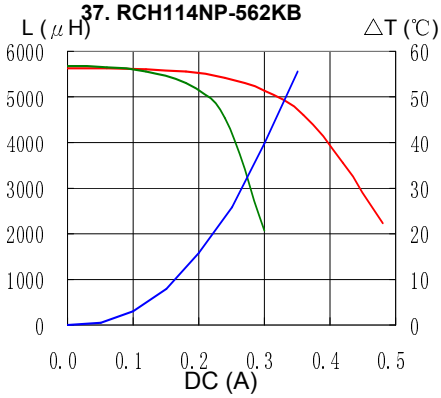


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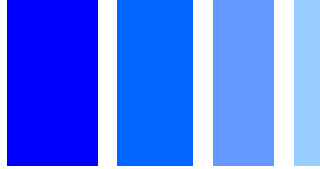


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



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