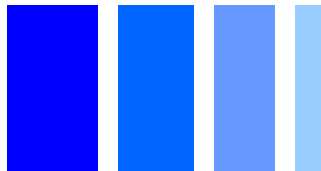




**THE DATASHEET OF  
RCH114NP-471KB**



# PIN Power Inductor RCH114



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 14.4mm Max.
- Product weight: 4.1g(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

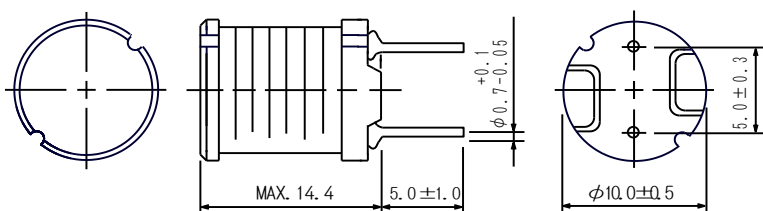
## Packaging

- Box packaging.

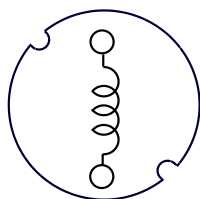
## Applications

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

## Dimension - [mm]



## Schematics - [mm]



# PIN Power Inductor RCH114



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) (Within)] ※ 1	D.C.R.( $\Omega$ ) Max. (Typ.) at 20°C	Rated Current (A) ※2
RCH114NP-6R3MB	6R3	6.3 $\mu\text{H} \pm 20\%$	26m(20m)	4.3
RCH114NP-7R5MB	7R5	7.5 $\mu\text{H} \pm 20\%$	29m(22m)	4.2
RCH114NP-8R8MB	8R8	8.8 $\mu\text{H} \pm 20\%$	30m(23m)	4.1
RCH114NP-100KB	100	10 $\mu\text{H} \pm 10\%$	33m(25m)	4.0
RCH114NP-120KB	120	12 $\mu\text{H} \pm 10\%$	35m(27m)	3.9
RCH114NP-150KB	150	15 $\mu\text{H} \pm 10\%$	39m(30m)	3.7
RCH114NP-180KB	180	18 $\mu\text{H} \pm 10\%$	47m(36m)	3.5
RCH114NP-220KB	220	22 $\mu\text{H} \pm 10\%$	51m(39m)	3.3
RCH114NP-270KB	270	27 $\mu\text{H} \pm 10\%$	57m(44m)	3.1
RCH114NP-330KB	330	33 $\mu\text{H} \pm 10\%$	64m(49m)	2.9
RCH114NP-390KB	390	39 $\mu\text{H} \pm 10\%$	74m(57m)	2.7
RCH114NP-470KB	470	47 $\mu\text{H} \pm 10\%$	83m(64m)	2.5
RCH114NP-560KB	560	56 $\mu\text{H} \pm 10\%$	104m(80m)	2.3
RCH114NP-680KB	680	68 $\mu\text{H} \pm 10\%$	117m(90m)	2.1
RCH114NP-820KB	820	82 $\mu\text{H} \pm 10\%$	130m(100m)	1.9
RCH114NP-101KB	101	100 $\mu\text{H} \pm 10\%$	143m(110m)	1.7
RCH114NP-121KB	121	120 $\mu\text{H} \pm 10\%$	195m(150m)	1.5
RCH114NP-151KB	151	150 $\mu\text{H} \pm 10\%$	221m(170m)	1.4
RCH114NP-181KB	181	180 $\mu\text{H} \pm 10\%$	0.26(0.20)	1.3
RCH114NP-221KB	221	220 $\mu\text{H} \pm 10\%$	0.35(0.27)	1.2
RCH114NP-271KB	271	270 $\mu\text{H} \pm 10\%$	0.39(0.30)	1.1
RCH114NP-331KB	331	330 $\mu\text{H} \pm 10\%$	0.52(0.40)	1.0
RCH114NP-391KB	391	390 $\mu\text{H} \pm 10\%$	0.57(0.44)	0.92
RCH114NP-471KB	471	470 $\mu\text{H} \pm 10\%$	0.65(0.50)	0.84
RCH114NP-561KB	561	560 $\mu\text{H} \pm 10\%$	0.79(0.61)	0.75
RCH114NP-681KB	681	680 $\mu\text{H} \pm 10\%$	0.96(0.74)	0.69
RCH114NP-821KB	821	820 $\mu\text{H} \pm 10\%$	1.22(0.94)	0.62
RCH114NP-102KB	102	1.0 mH $\pm 10\%$	1.6(1.3)	0.52
RCH114NP-122KB	122	1.2 mH $\pm 10\%$	2.2(1.8)	0.46
RCH114NP-152KB	152	1.5 mH $\pm 10\%$	2.5(2.0)	0.41
RCH114NP-182KB	182	1.8 mH $\pm 10\%$	2.9(2.3)	0.36
RCH114NP-222KB	222	2.2 mH $\pm 10\%$	3.2(2.6)	0.32
RCH114NP-272KB	272	2.7 mH $\pm 10\%$	3.7(3.0)	0.29
RCH114NP-332KB	332	3.3 mH $\pm 10\%$	5.0(4.0)	0.27
RCH114NP-392KB	392	3.9 mH $\pm 10\%$	5.6(4.5)	0.25
RCH114NP-472KB	472	4.7 mH $\pm 10\%$	7.4(5.9)	0.23
RCH114NP-562KB	562	5.6 mH $\pm 10\%$	8.2(6.6)	0.21
RCH114NP-682KB	682	6.8 mH $\pm 10\%$	11.9(9.5)	0.19
RCH114NP-822KB	822	8.2 mH $\pm 10\%$	14(11)	0.17
RCH114NP-103KB	103	10 mH $\pm 10\%$	16(13)	0.16
RCH114NP-123KB	123	12 mH $\pm 10\%$	21(17)	0.15
RCH114NP-153KB	153	15 mH $\pm 10\%$	24(19)	0.14
RCH114NP-183KB	183	18 mH $\pm 10\%$	27(22)	0.13
RCH114NP-223KB	223	22 mH $\pm 10\%$	34(27)	0.12
RCH114NP-273KB	273	27 mH $\pm 10\%$	39(31)	0.11
RCH114NP-333KB	333	33 mH $\pm 10\%$	51(41)	0.10
RCH114NP-393KB	393	39 mH $\pm 10\%$	58(46)	0.09

※ 1 : Inductance measuring condition : 6.3  $\mu\text{H} \sim 8.8 \mu\text{H}$  at 7.96 MHz  
1.0  $\mu\text{H} \sim 3.9 \text{mH}$  at 1.0 kHz

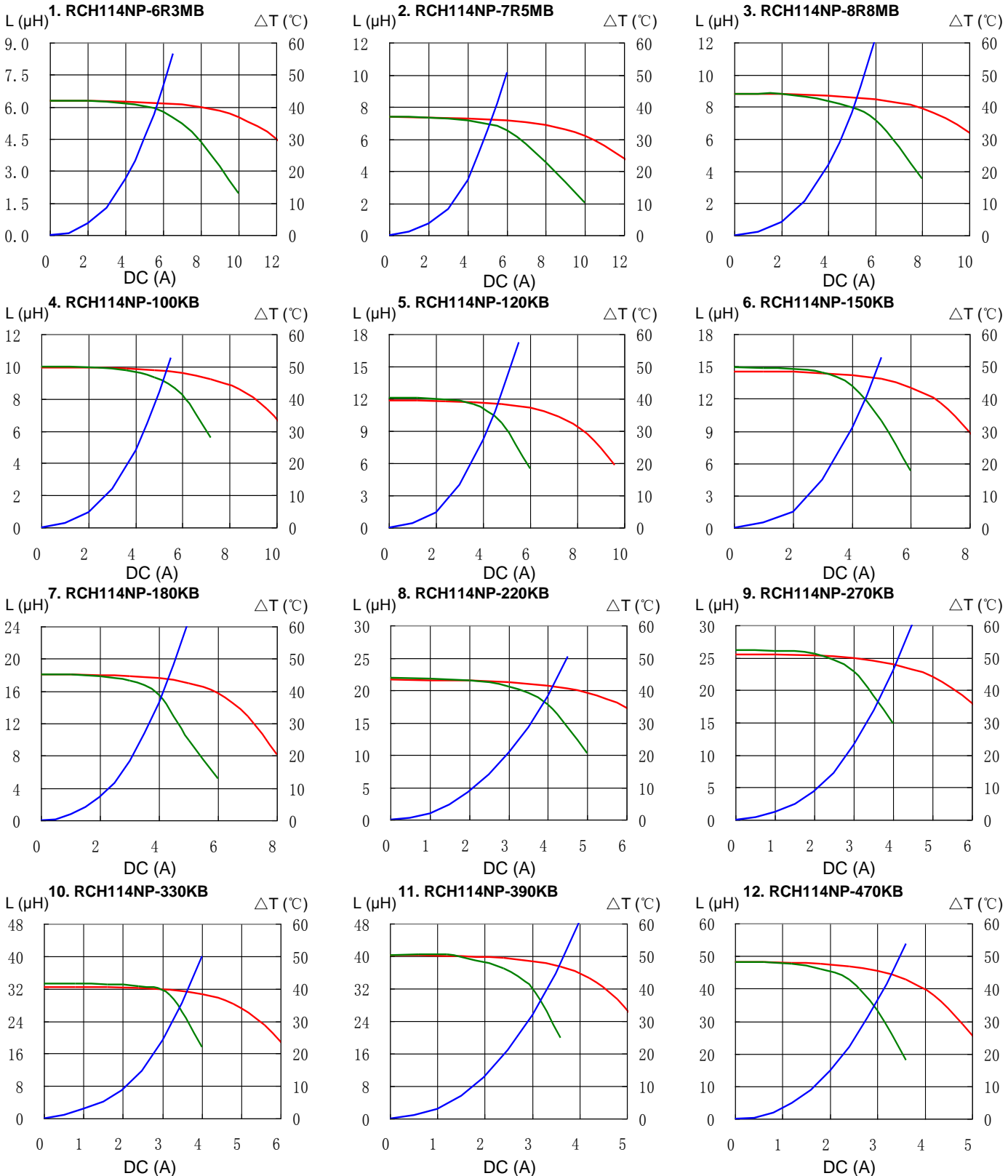
※ 2 : Rated current: The DC current at which the inductance decreases 90% of its initial value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ )

# PIN Power Inductor RCH114

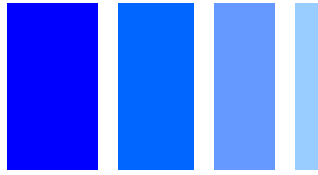


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

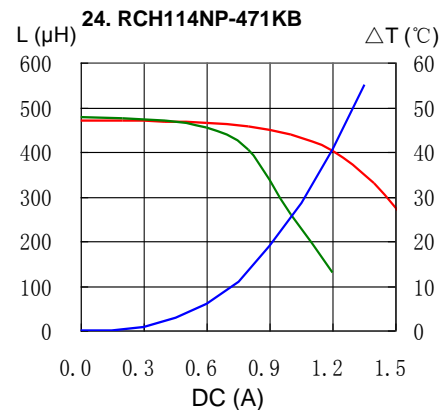
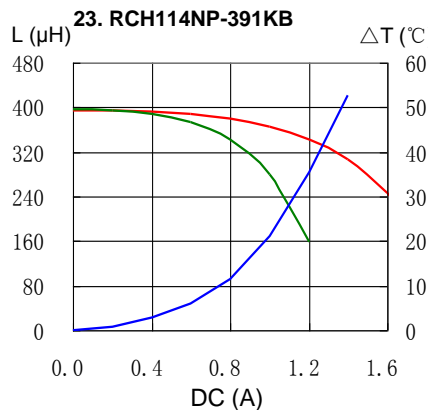
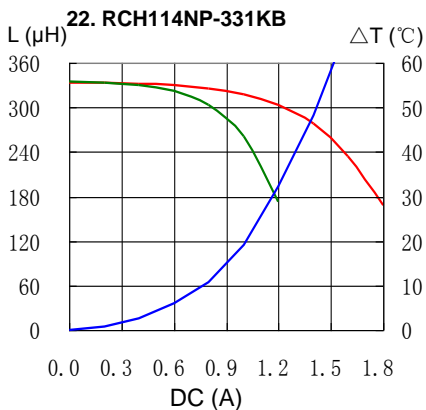
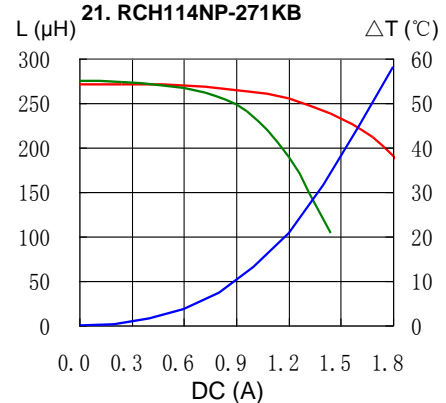
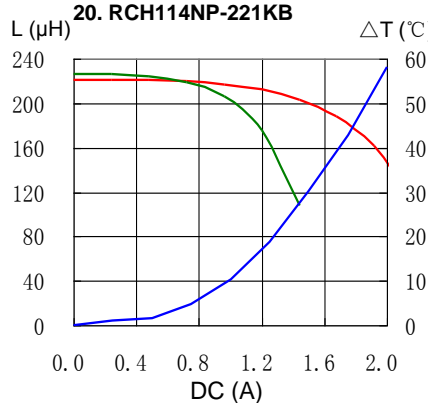
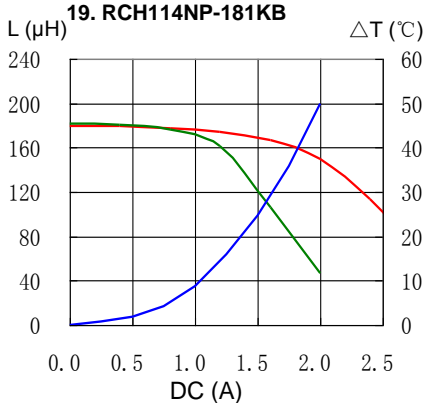
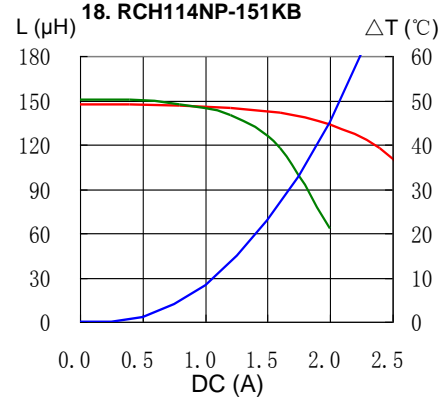
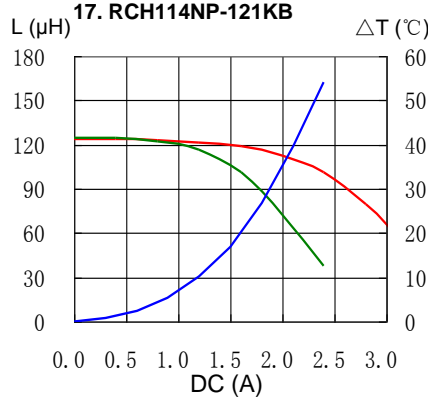
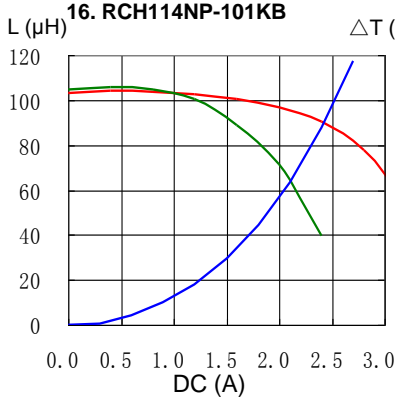
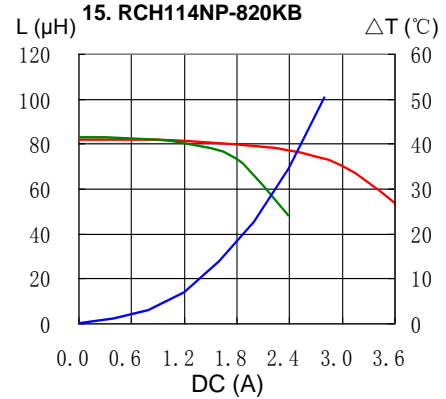
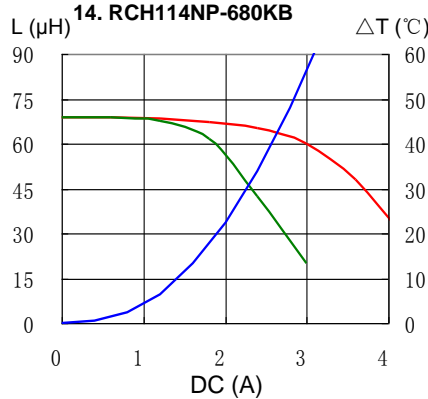
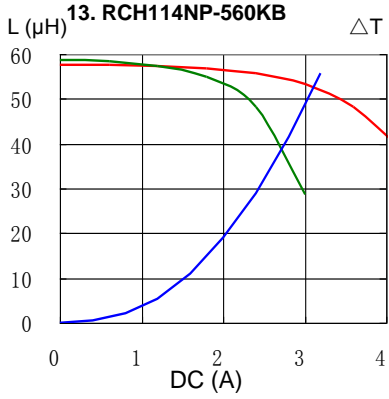


# PIN Power Inductor RCH114

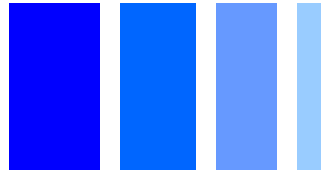


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

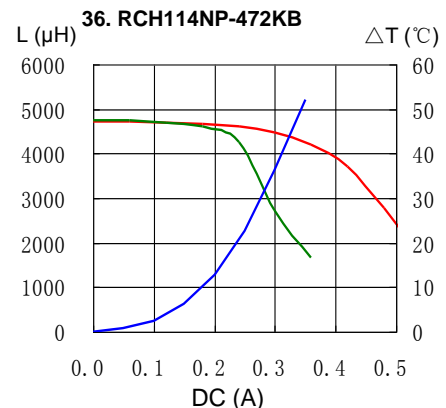
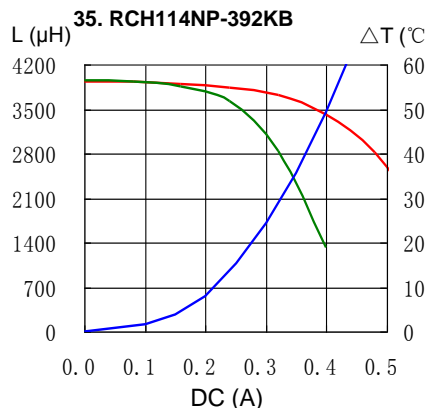
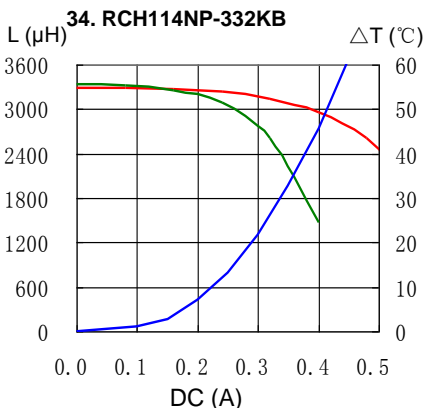
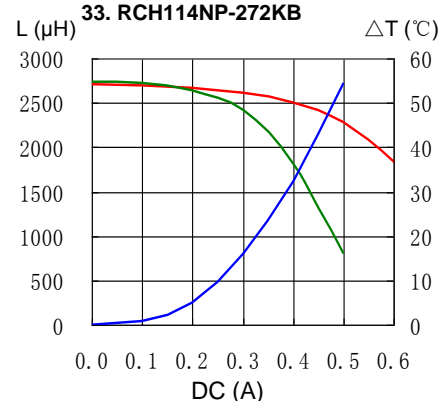
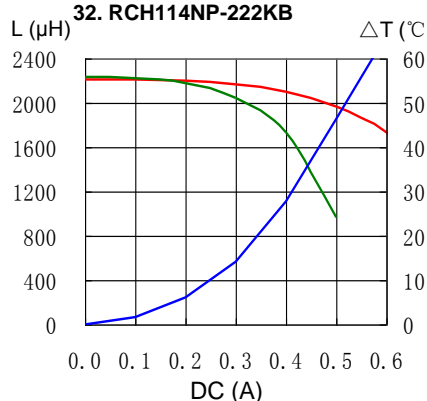
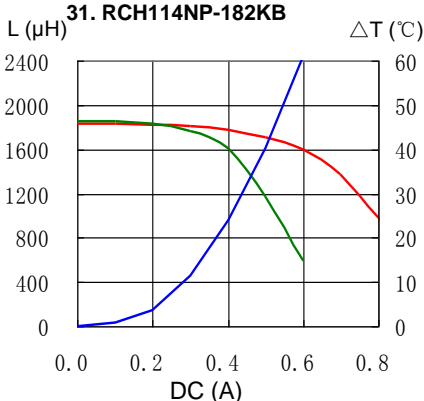
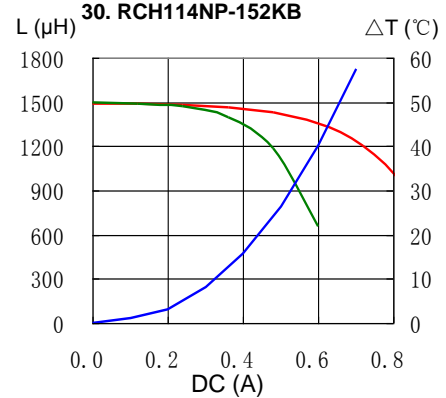
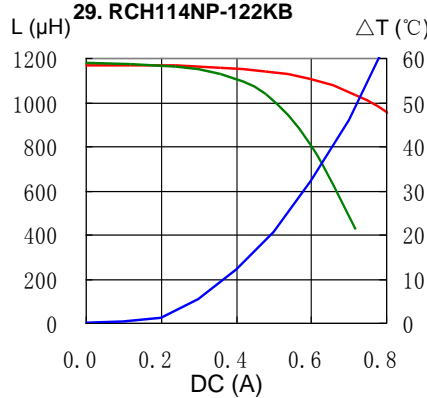
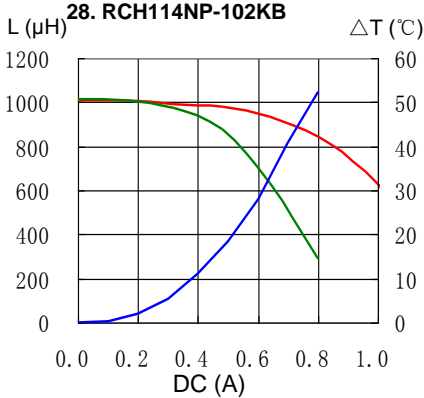
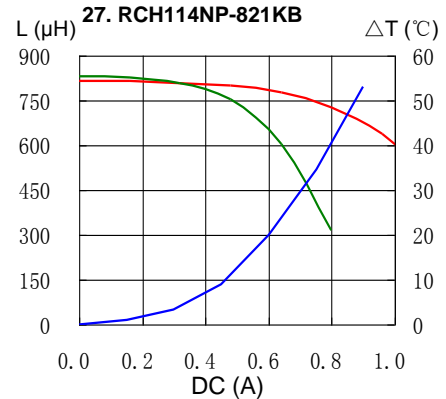
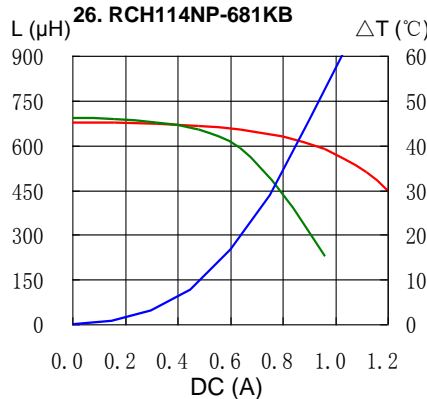
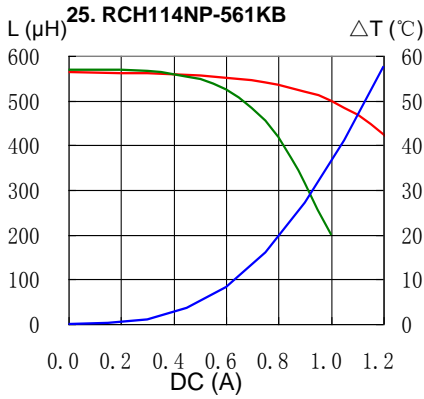


# PIN Power Inductor RCH114

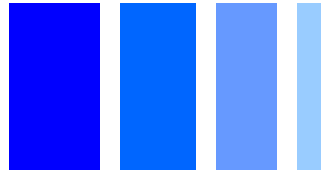


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

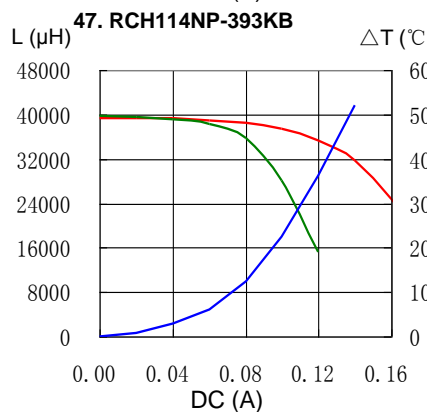
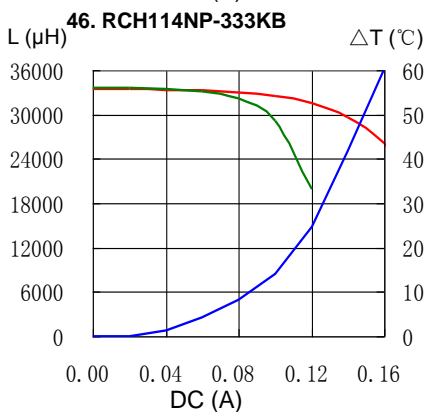
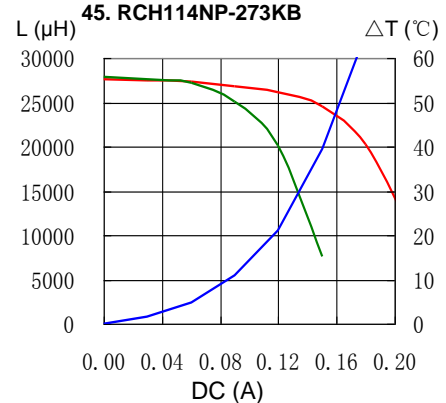
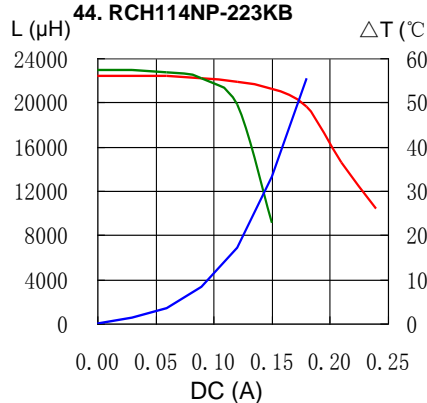
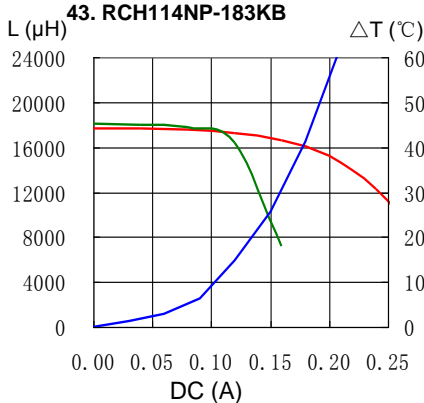
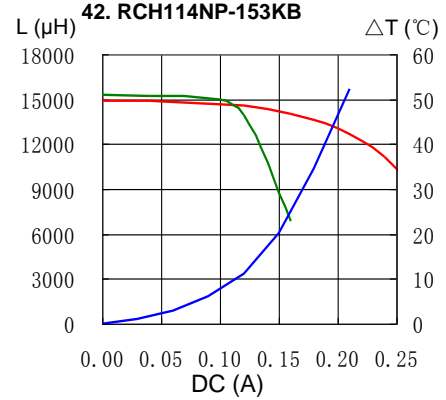
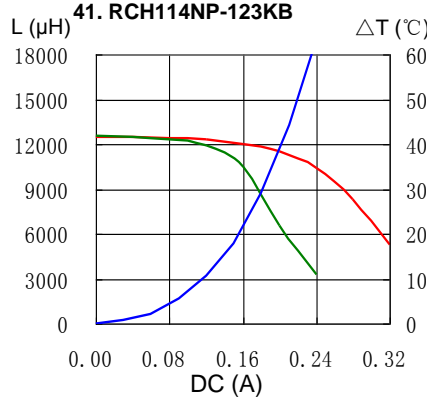
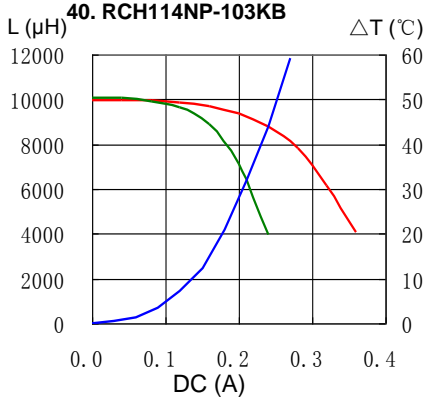
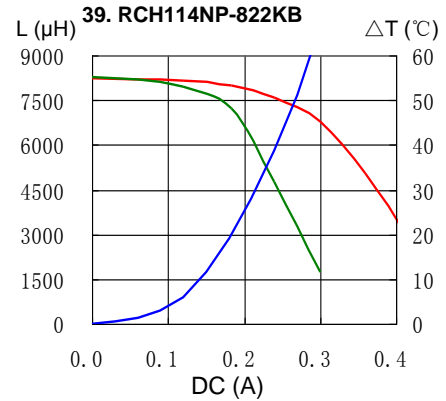
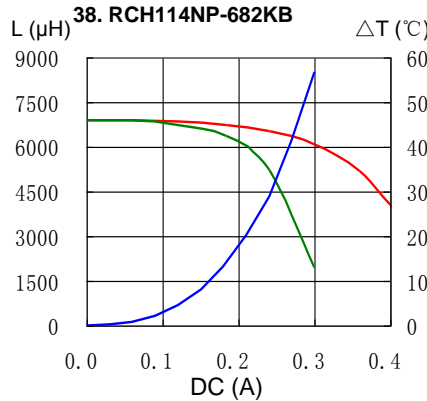
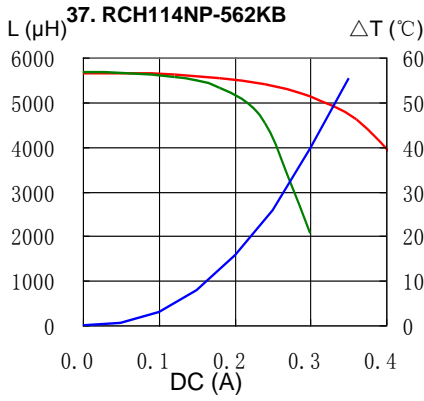


# PIN Power Inductor RCH114



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



# PIN Power Inductor RCH114



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## Hong Kong

Tel.+852-2880-6781  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

## Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

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Tel.+1-847-545-6700  
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[sales@us.sumida.com](mailto:sales@us.sumida.com)

## Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

## Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

## Obernzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

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Tel.+86-755-8291-0228  
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[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

## Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

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Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

## Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

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