

RCH114NP-6R3MB Datasheet



DiGi Electronics Part Number	RCH114NP-6R3MB-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	RCH114NP-6R3MB
Description	INDUCTOR
Detailed Description	6.3 μ H Unshielded Drum Core, Wirewound Inductor 5.6 A 26mOhm Max Radial

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Purchase and inquiry

Manufacturer Product Number:

RCH114NP-6R3MB

Series:

RCH114

Type:

Drum Core, Wirewound

Inductance:

6.3 μ H

Current Rating (Amps):

5.6 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

7.96 MHz

Mounting Type:

Through Hole

Supplier Device Package:

Radial

Height - Seated (Max):

-

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

8.2A

DC Resistance (DCR):

26mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 100°C

Features:

-

Package / Case:

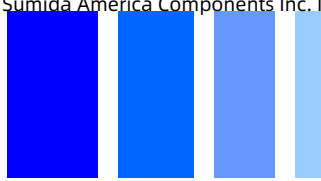
Radial

Size / Dimension:

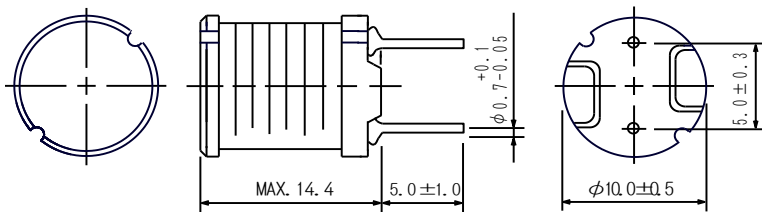
0.394" Dia (10.00mm)

PIN Power Inductor

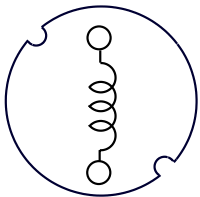
RCH114



Dimension - [mm]



Schematics - [mm]



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

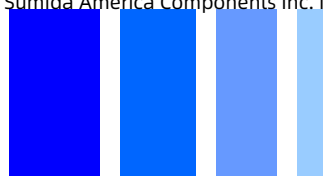
- Box packaging.

Applications

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

PIN Power Inductor

RCH114



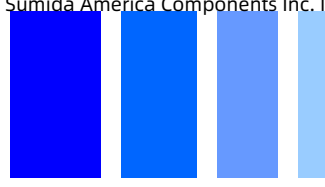
Electrical Characteristics

Part Name	Stamp	Inductance (μH) (Within)] ※ 1	D.C.R.(Ω) 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	$1.0\text{ mH} \pm 10\%$	1.6(1.3)	0.52
RCH114NP-122KB	122	$1.2\text{ mH} \pm 10\%$	2.2(1.8)	0.46
RCH114NP-152KB	152	$1.5\text{ mH} \pm 10\%$	2.5(2.0)	0.41
RCH114NP-182KB	182	$1.8\text{ mH} \pm 10\%$	2.9(2.3)	0.36
RCH114NP-222KB	222	$2.2\text{ mH} \pm 10\%$	3.2(2.6)	0.32
RCH114NP-272KB	272	$2.7\text{ mH} \pm 10\%$	3.7(3.0)	0.29
RCH114NP-332KB	332	$3.3\text{ mH} \pm 10\%$	5.0(4.0)	0.27
RCH114NP-392KB	392	$3.9\text{ mH} \pm 10\%$	5.6(4.5)	0.25
RCH114NP-472KB	472	$4.7\text{ mH} \pm 10\%$	7.4(5.9)	0.23
RCH114NP-562KB	562	$5.6\text{ mH} \pm 10\%$	8.2(6.6)	0.21
RCH114NP-682KB	682	$6.8\text{ mH} \pm 10\%$	11.9(9.5)	0.19
RCH114NP-822KB	822	$8.2\text{ mH} \pm 10\%$	14(11)	0.17
RCH114NP-103KB	103	$10\text{ mH} \pm 10\%$	16(13)	0.16
RCH114NP-123KB	123	$12\text{ mH} \pm 10\%$	21(17)	0.15
RCH114NP-153KB	153	$15\text{ mH} \pm 10\%$	24(19)	0.14
RCH114NP-183KB	183	$18\text{ mH} \pm 10\%$	27(22)	0.13
RCH114NP-223KB	223	$22\text{ mH} \pm 10\%$	34(27)	0.12
RCH114NP-273KB	273	$27\text{ mH} \pm 10\%$	39(31)	0.11
RCH114NP-333KB	333	$33\text{ mH} \pm 10\%$	51(41)	0.10
RCH114NP-393KB	393	$39\text{ mH} \pm 10\%$	58(46)	0.09

※ 1 : Inductance measuring condition : $6.3\mu\text{H} \sim 8.8\mu\text{H}$ at 7.96 MHz
 $10\mu\text{H} \sim 39\text{ mH}$ at 1.0 kHz

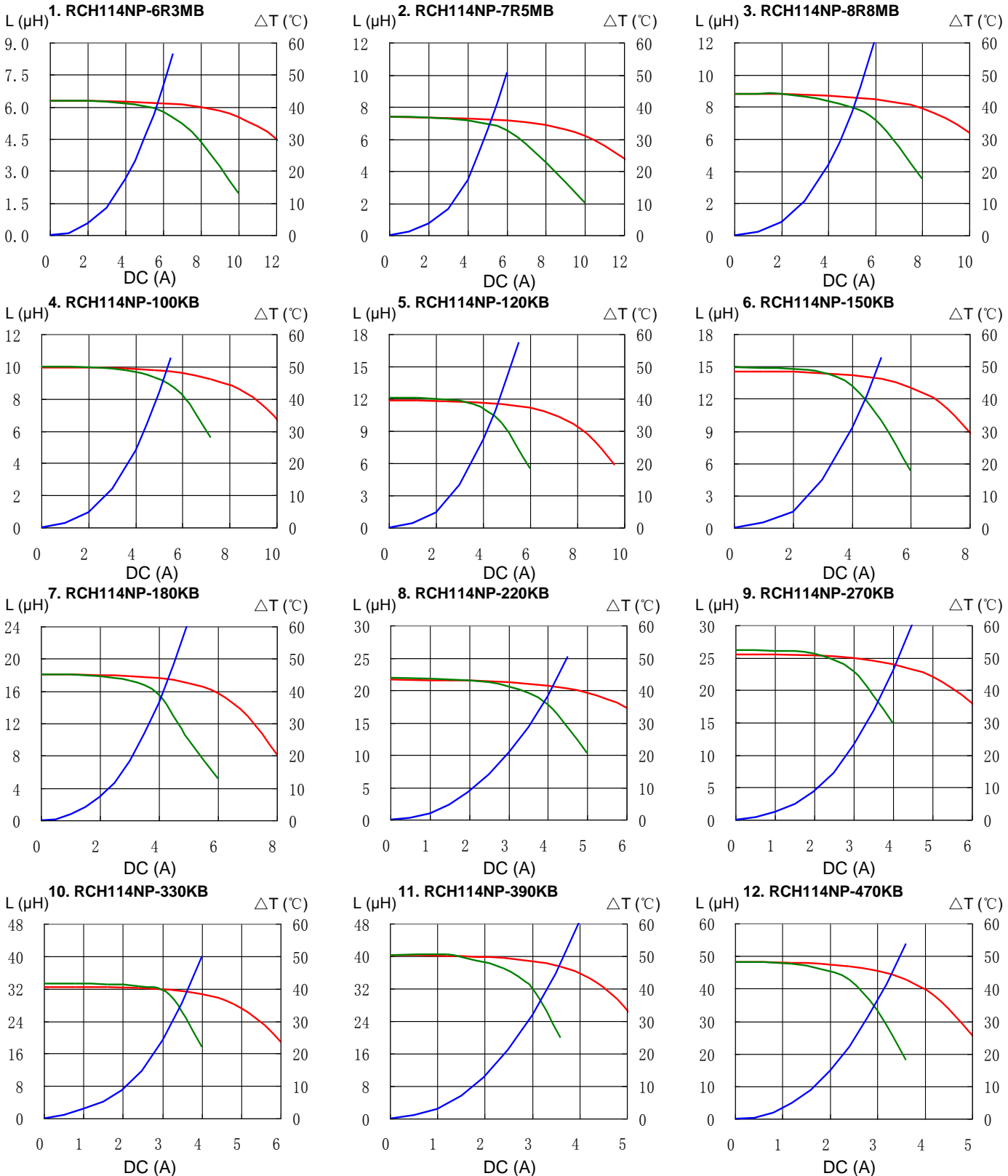
※ 2 : Rated current: The DC current at which the inductance decreases 90% of its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$)

PIN Power Inductor RCH114

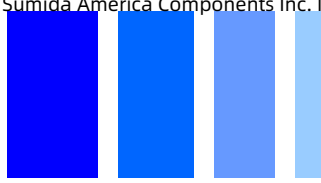


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

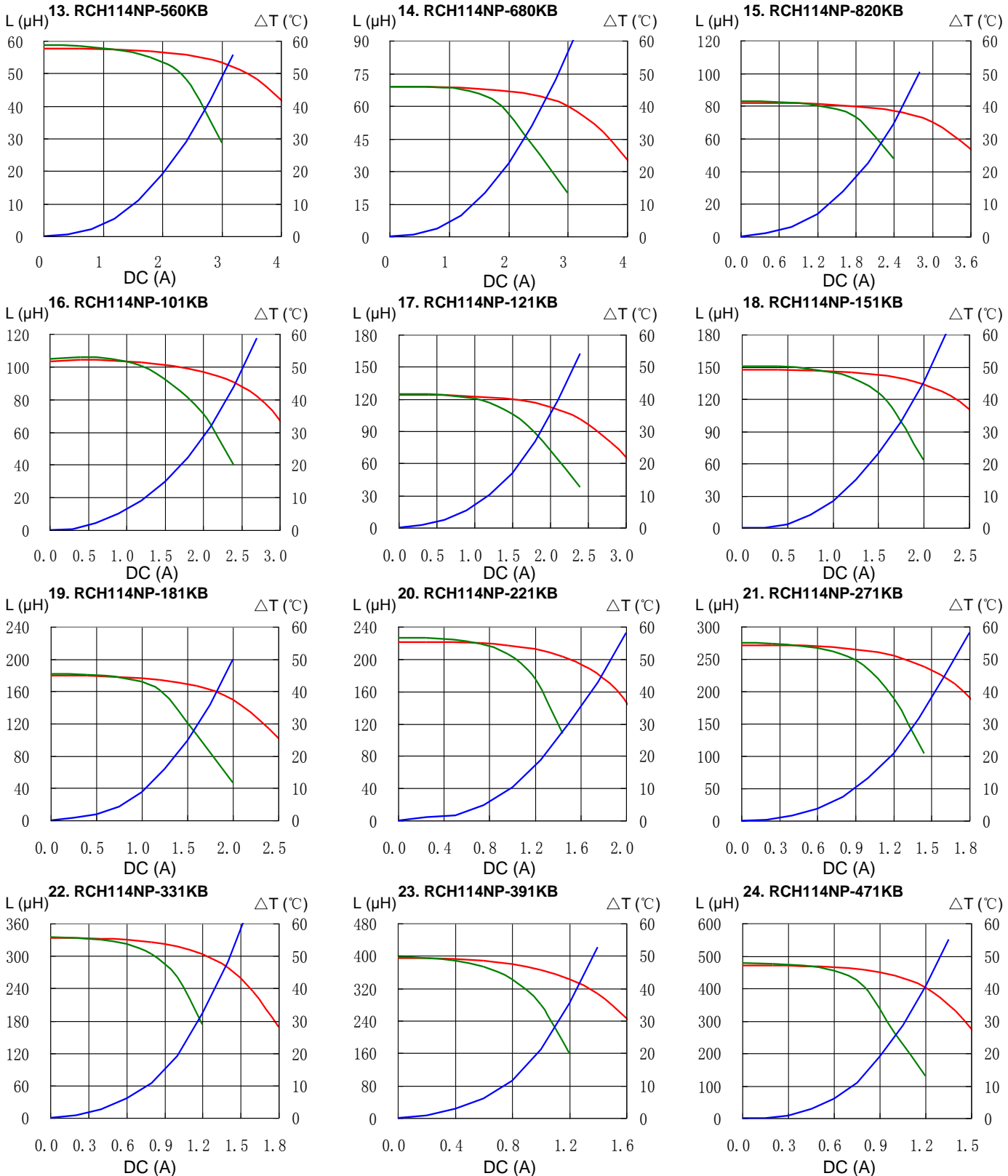


PIN Power Inductor RCH114

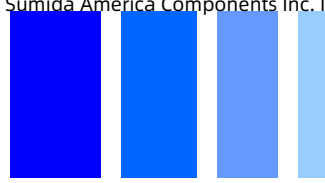


Saturation Current & Temperature Rise Graph

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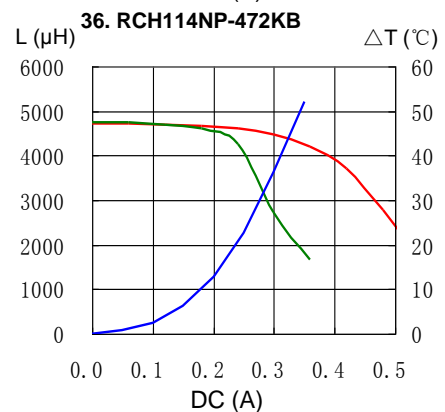
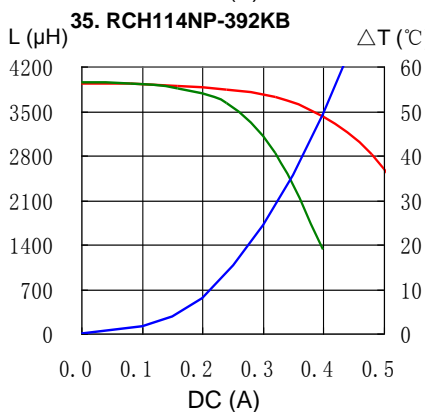
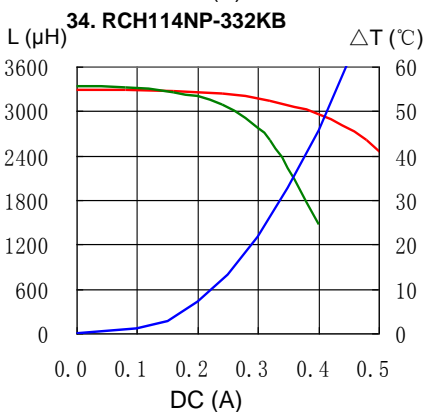
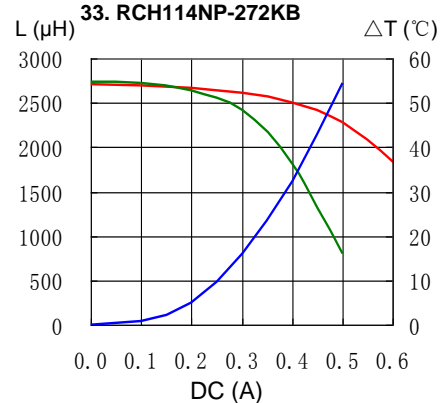
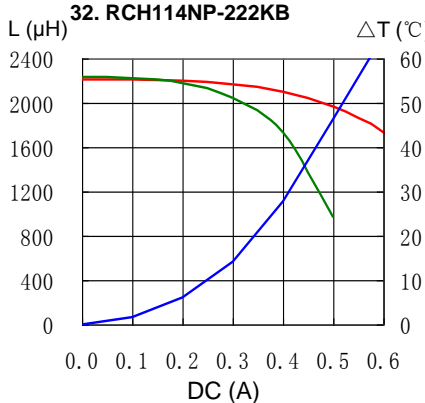
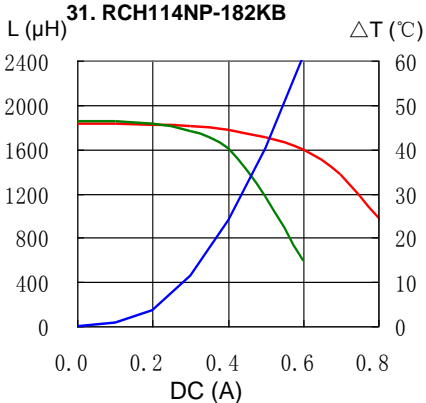
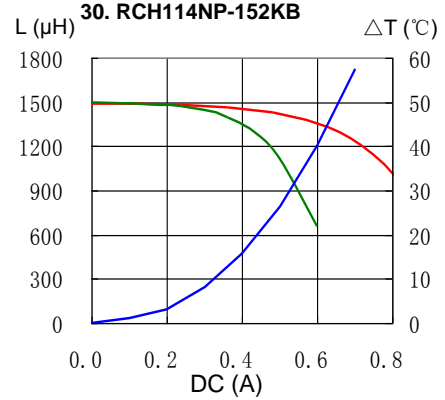
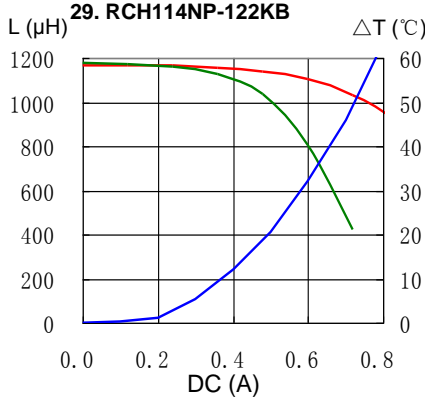
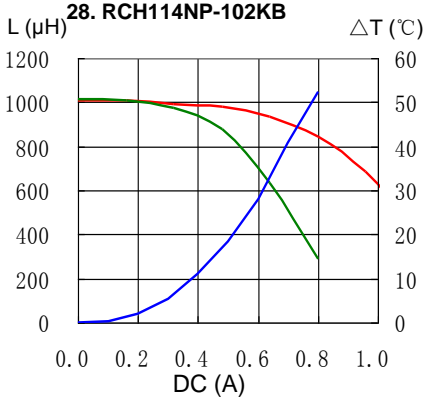
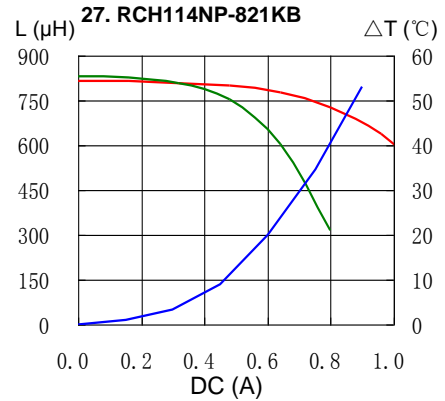
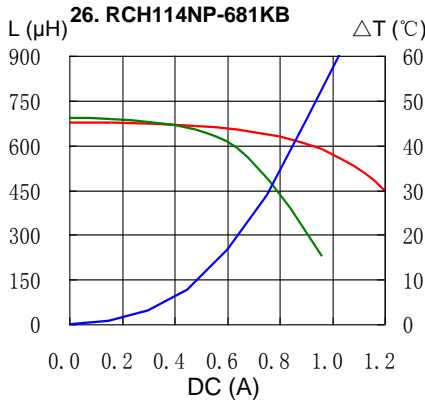
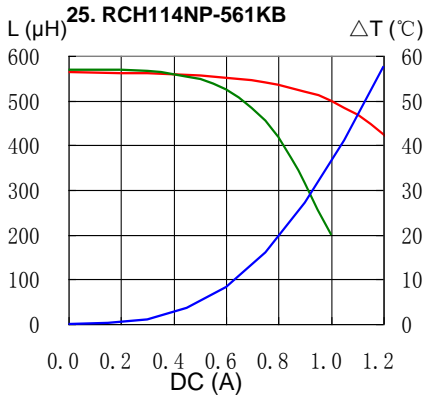


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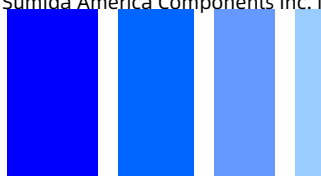


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

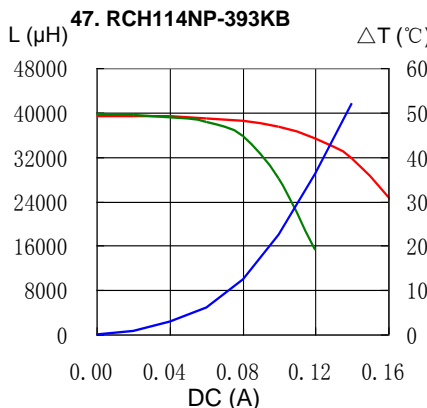
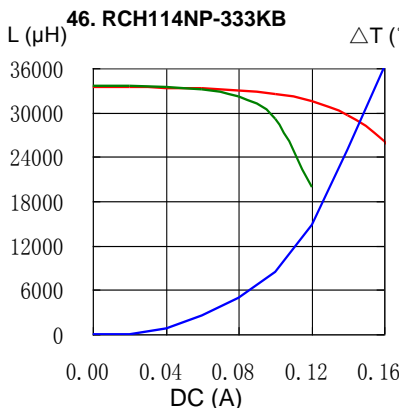
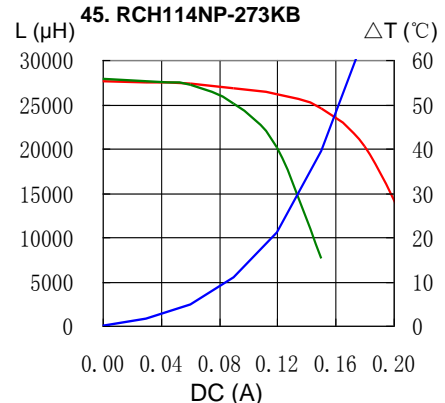
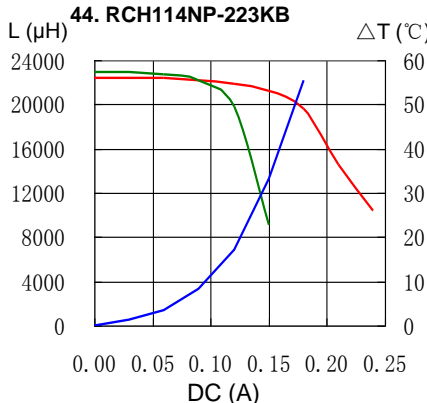
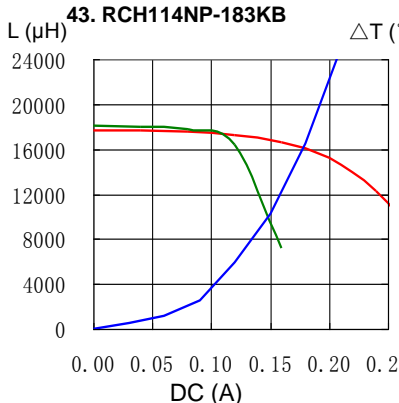
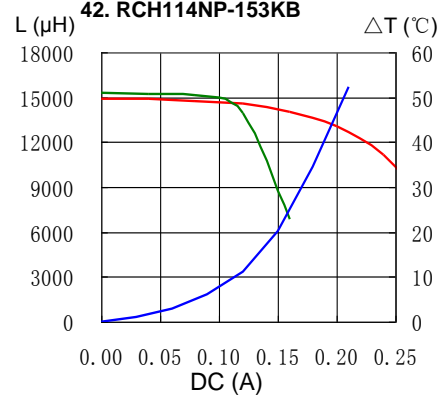
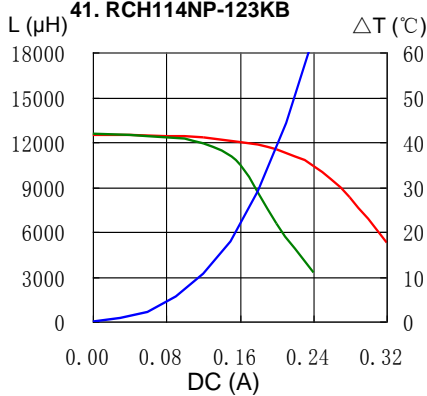
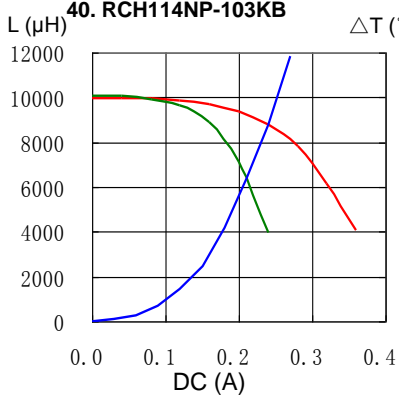
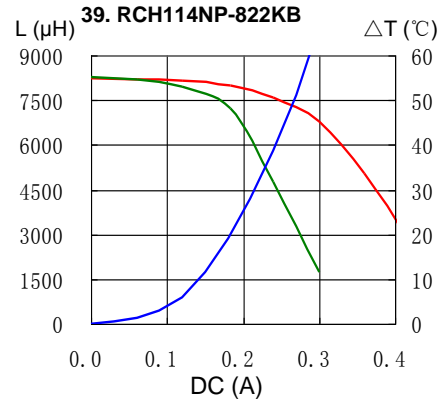
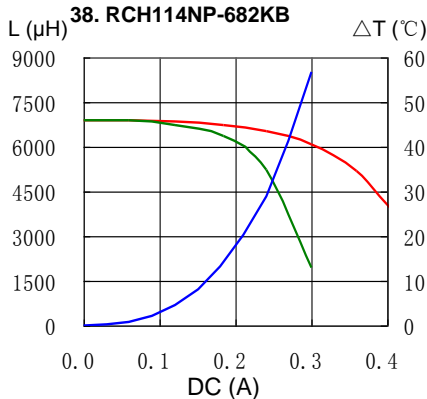
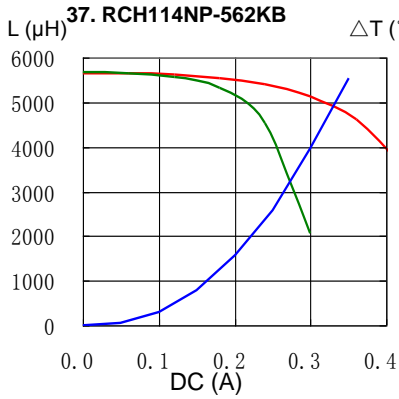


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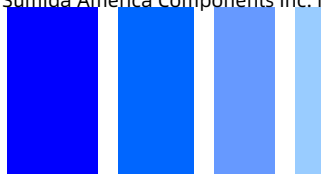


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



PIN Power Inductor RCH114



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