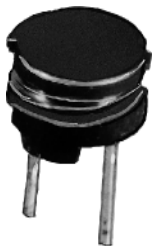
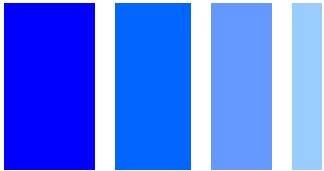


PIN Power Inductor

RCH-855



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 5.5mm Max.
- Product weight: 0.9g(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

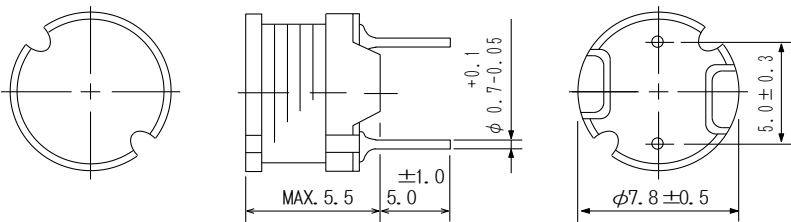
Packaging

- Box packaging.

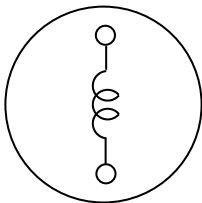
Applications

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

Dimension - [mm]



Schematics - [mm]



PIN Power Inductor

RCH-855

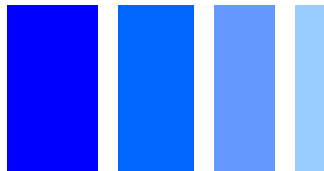


Electrical Characteristics

Part Name	Stamp	Inductance (μH) [Within] ※ 1	D.C.R(Ω) (Max.) (at20℃)	Saturation Current (A) ※2	Temperature rise current (A) ※3
RCH855NP-2R5M	2R5M	$2.5 \pm 20\%$	23m	4.5	3.1
RCH855NP-3R3M	3R3M	$3.3 \pm 20\%$	26m	4.0	2.7
RCH855NP-4R1M	4R1M	$4.1 \pm 20\%$	31m	3.6	2.5
RCH855NP-5R0M	5R0M	$5.0 \pm 20\%$	34m	3.4	2.4
RCH855NP-5R9M	5R9M	$5.9 \pm 20\%$	39m	3.2	2.2
RCH855NP-6R8M	6R8M	$6.8 \pm 20\%$	42m	2.9	2.1
RCH855NP-8R2M	8R2M	$8.2 \pm 20\%$	45m	2.7	1.9
RCH855NP-100M	100M	$10 \pm 20\%$	70m	2.5	1.3
RCH855NP-120M	120M	$12 \pm 20\%$	80m	2.4	1.1
RCH855NP-150M	150M	$15 \pm 20\%$	90m	2.1	0.95
RCH855NP-180M	180M	$18 \pm 20\%$	100m	2.0	0.90
RCH855NP-220K	220K	$22 \pm 10\%$	120m	1.7	0.77
RCH855NP-270K	270K	$27 \pm 10\%$	140m	1.6	0.72
RCH855NP-330K	330K	$33 \pm 10\%$	170m	1.4	0.67
RCH855NP-390K	390K	$39 \pm 10\%$	210m	1.3	0.59
RCH855NP-470K	470K	$47 \pm 10\%$	240m	1.2	0.57
RCH855NP-560K	560K	$56 \pm 10\%$	0.31	1.1	0.50
RCH855NP-680K	680K	$68 \pm 10\%$	0.34	1.0	0.47
RCH855NP-820K	820K	$82 \pm 10\%$	0.40	0.93	0.43
RCH855NP-101K	101K	$100 \pm 10\%$	0.52	0.81	0.37
RCH855NP-121K	121K	$120 \pm 10\%$	0.59	0.76	0.36
RCH855NP-151K	151K	$150 \pm 10\%$	0.71	0.67	0.32
RCH855NP-181K	181K	$180 \pm 10\%$	0.89	0.62	0.30
RCH855NP-221K	221K	$220 \pm 10\%$	1.04	0.54	0.28
RCH855NP-271K	271K	$270 \pm 10\%$	1.28	0.49	0.25
RCH855NP-331K	331K	$330 \pm 10\%$	1.47	0.44	0.23
RCH855NP-391K	391K	$390 \pm 10\%$	1.67	0.41	0.22
RCH855NP-471K	471K	$470 \pm 10\%$	1.95	0.38	0.20
RCH855NP-561K	561K	$560 \pm 10\%$	2.83	0.35	0.16
RCH855NP-681K	681K	$680 \pm 10\%$	3.25	0.32	0.15
RCH855NP-821K	821K	$820 \pm 10\%$	3.82	0.31	0.14

PIN Power Inductor

RCH-855



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [Within] ※1	D.C.R(Ω) (Max.) (at20°C)	Saturation Current (A) ※2	Temperature rise current (A) ※3
RCH855NP-102K	102K	1000 $\pm$ 10%	5.28	0.25	0.12
RCH855NP-122K	122K	1200 $\pm$ 10%	6.03	0.23	0.11
RCH855NP-152K	152K	1500 $\pm$ 10%	7.15	0.21	99m
RCH855NP-182K	182K	1800 $\pm$ 10%	8.26	0.20	90m
RCH855NP-222K	222K	2200 $\pm$ 10%	11.1	0.18	81m
RCH855NP-272K	272K	2700 $\pm$ 10%	13.1	0.16	77m
RCH855NP-332K	332K	3300 $\pm$ 10%	15.9	0.14	68m
RCH855NP-392K	392K	3900 $\pm$ 10%	18.0	0.13	65m
RCH855NP-472K	472K	4700 $\pm$ 10%	23.9	0.12	56m
RCH855NP-562K	562K	5600 $\pm$ 10%	26.8	0.11	53m
RCH855NP-682K	682K	6800 $\pm$ 10%	31.7	98m	49m
RCH855NP-822K	822K	8200 $\pm$ 10%	46.5	88m	40m
RCH855NP-103K	103K	10000 $\pm$ 10%	55.7	81m	37m

※1: Inductance Measuring frequency: 2.5 μ H $\sim$ 8.2 μ H at 7.96MHz; 10 μ H $\sim$ 82 μ H at 2.52MHz; 100 μ H $\sim$ 10 mH at 1 kHz

※2: Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

※3: Temperature rise current: The DC current at which the temperature rise is $\Delta t=20^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$).

PIN Power Inductor

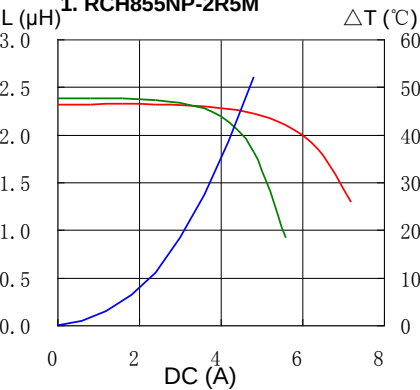
RCH-855



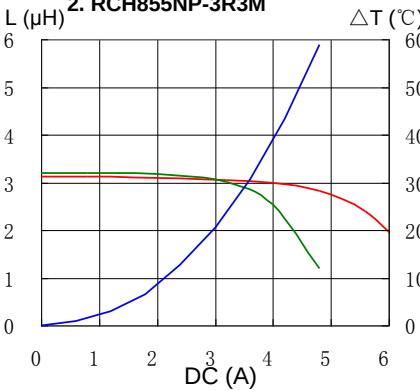
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

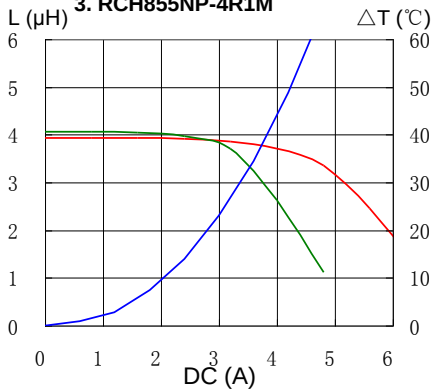
1. RCH855NP-2R5M



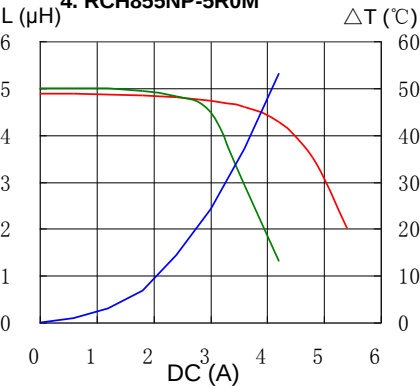
2. RCH855NP-3R3M



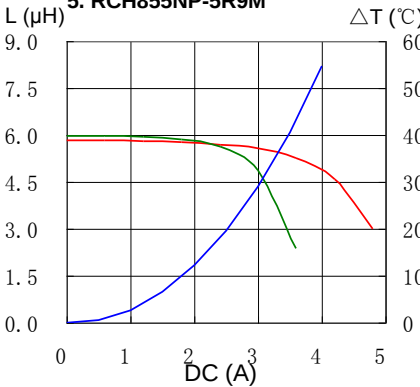
3. RCH855NP-4R1M



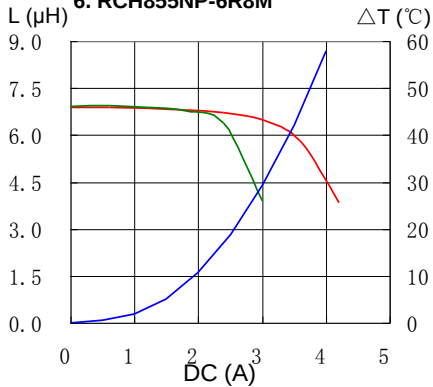
4. RCH855NP-5R0M



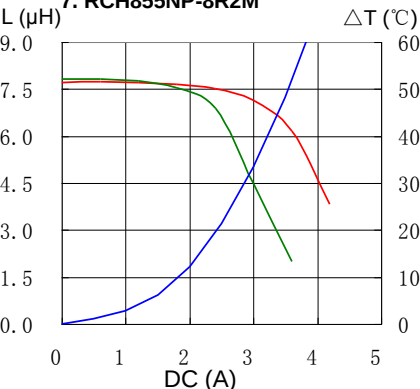
5. RCH855NP-5R9M



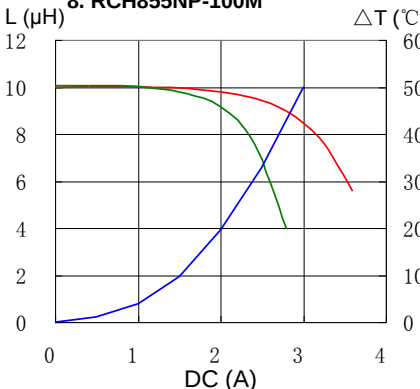
6. RCH855NP-6R8M



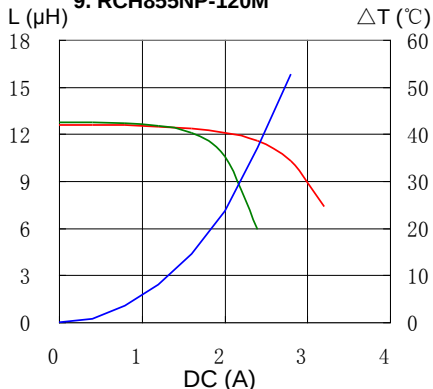
7. RCH855NP-8R2M



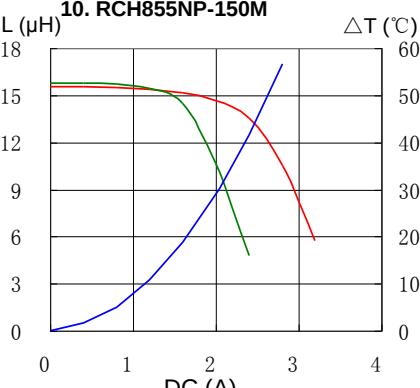
8. RCH855NP-100M



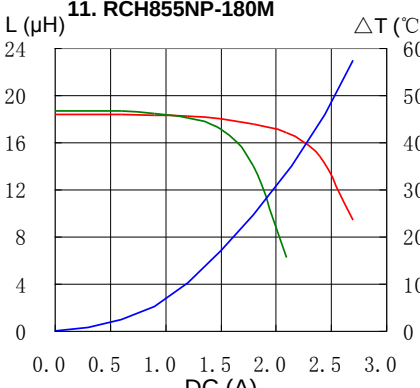
9. RCH855NP-120M



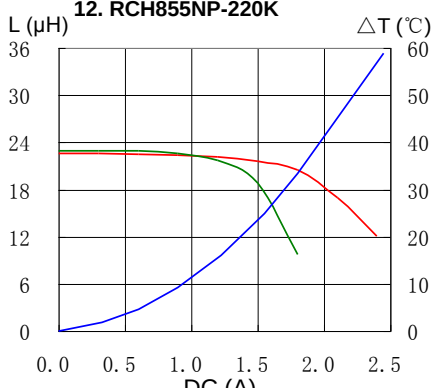
10. RCH855NP-150M



11. RCH855NP-180M



12. RCH855NP-220K



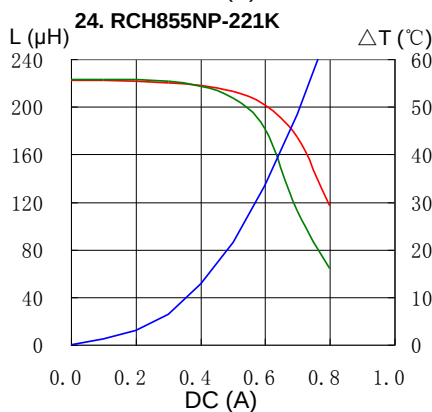
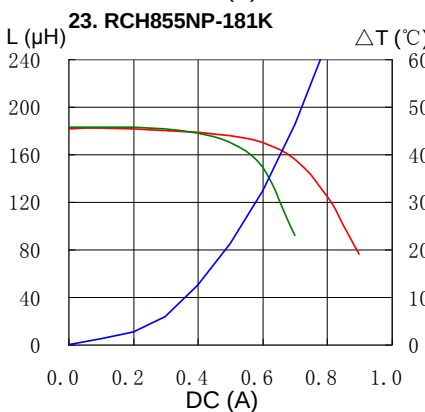
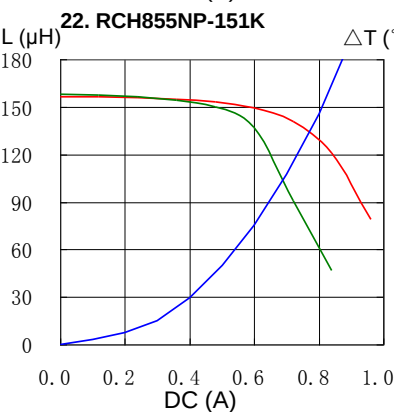
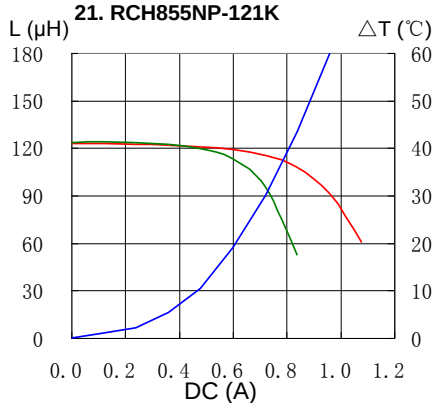
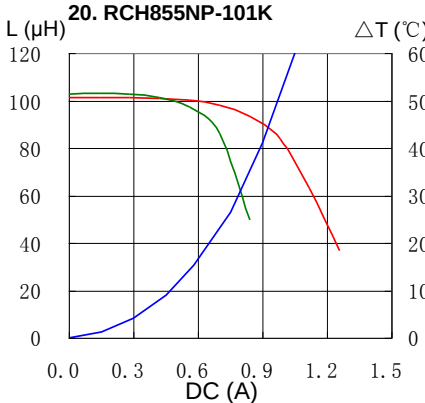
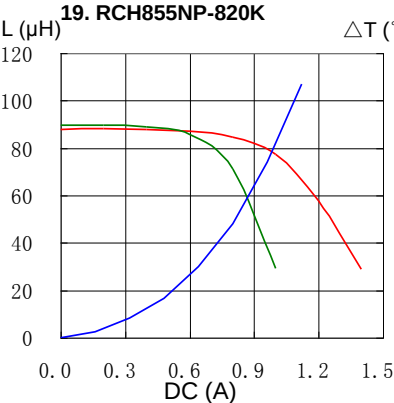
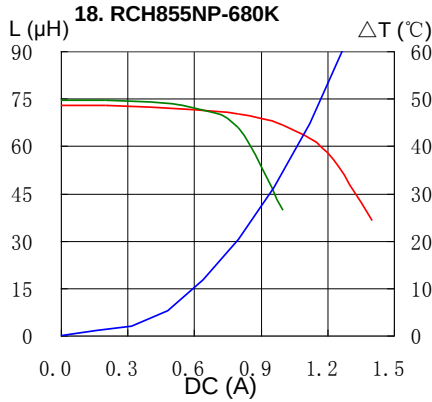
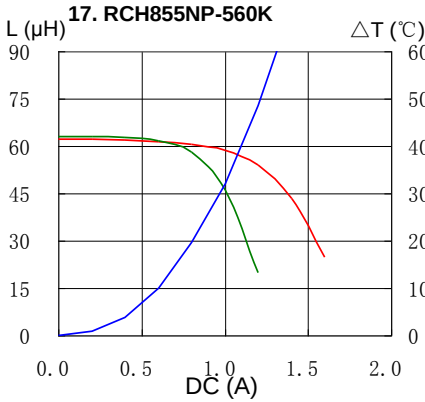
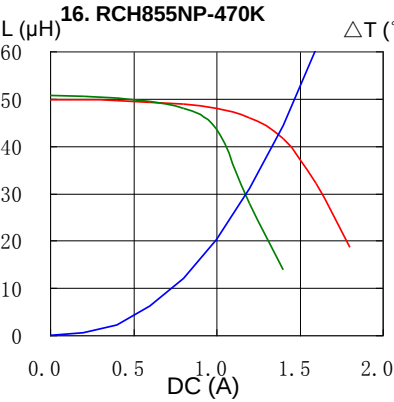
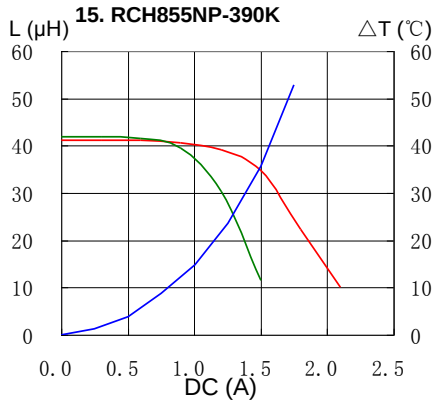
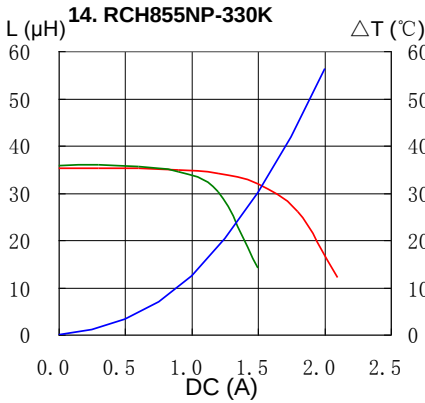
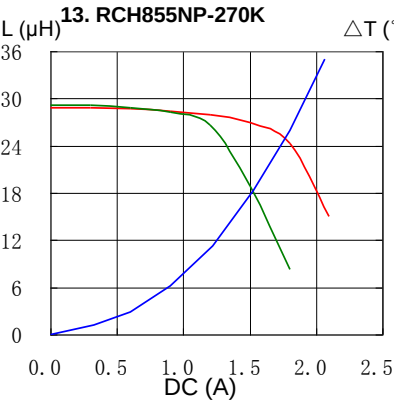
PIN Power Inductor

RCH-855



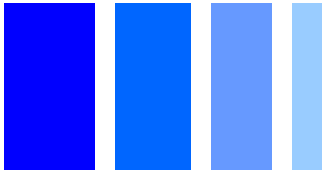
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



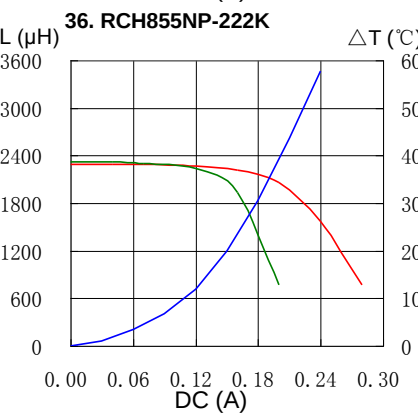
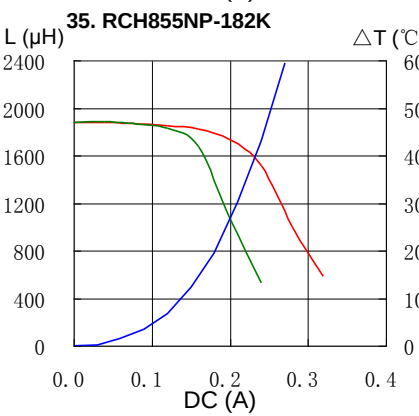
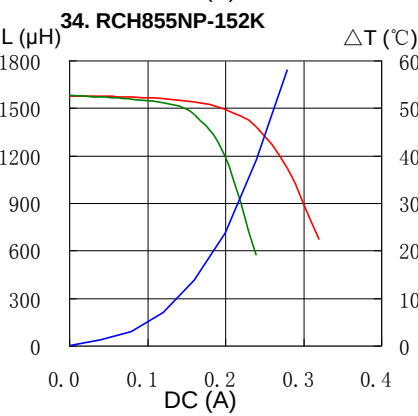
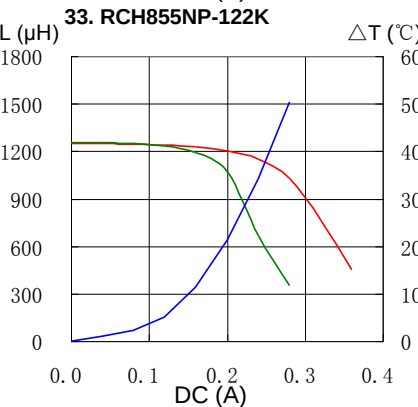
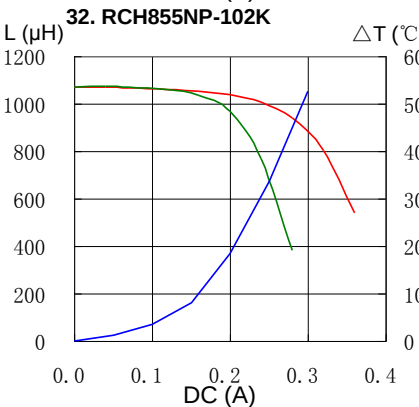
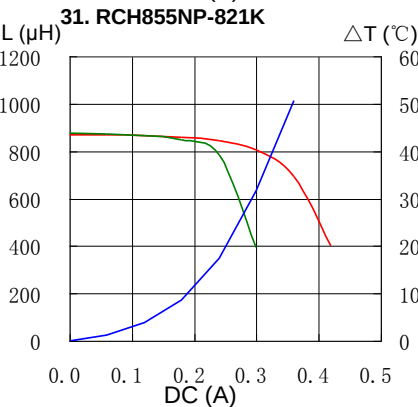
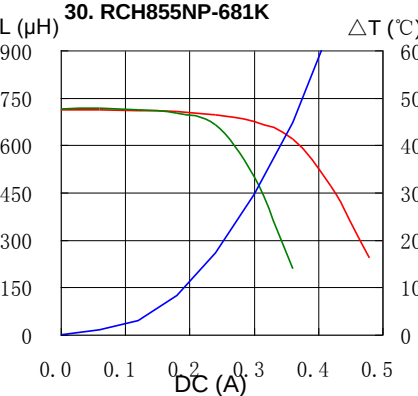
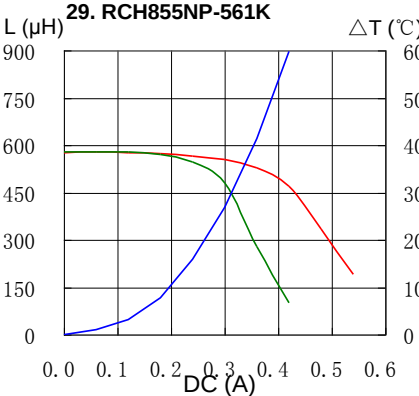
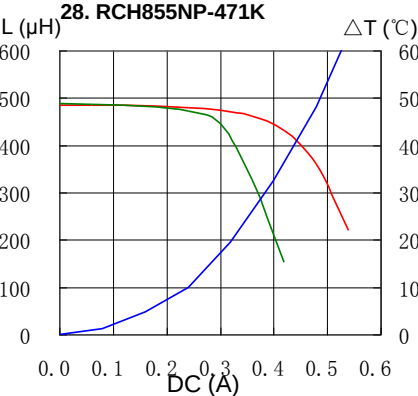
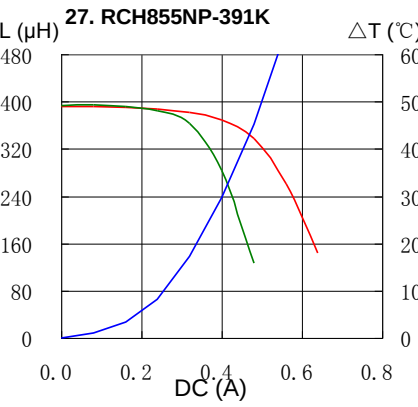
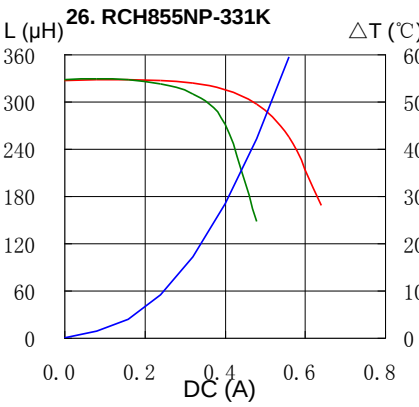
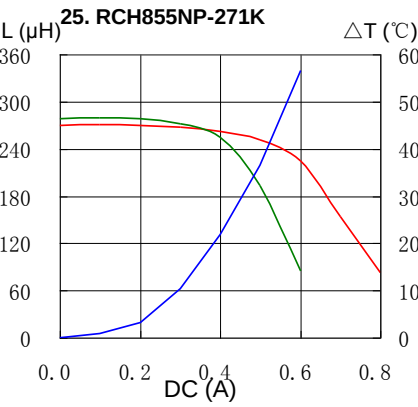
PIN Power Inductor

RCH-855

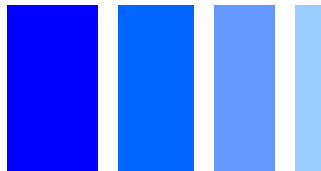


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

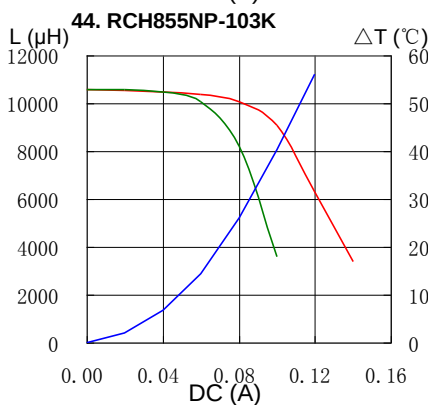
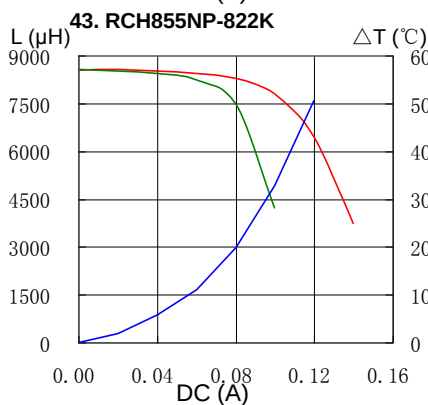
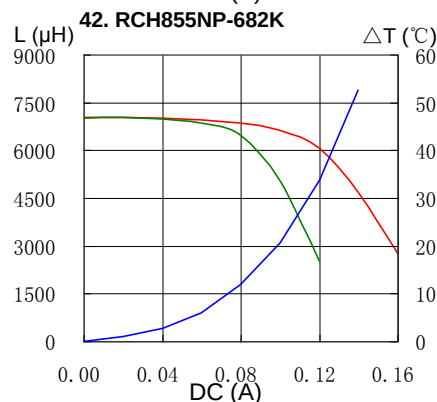
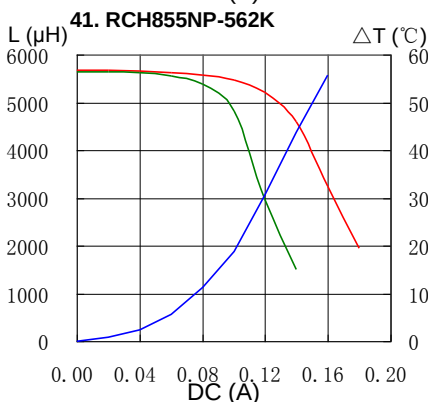
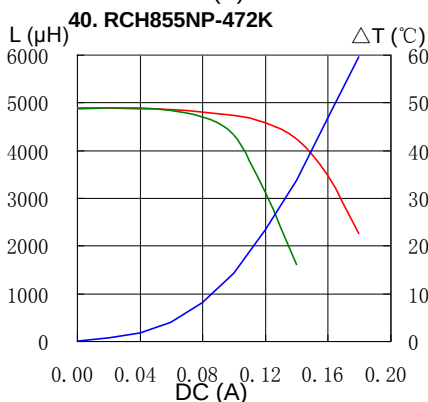
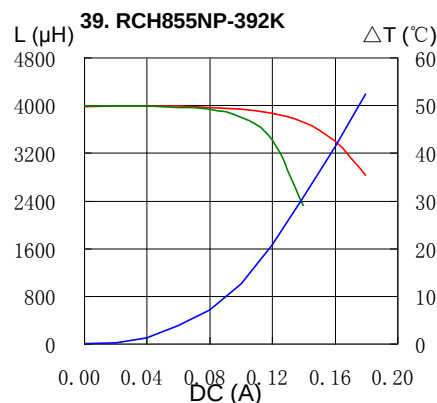
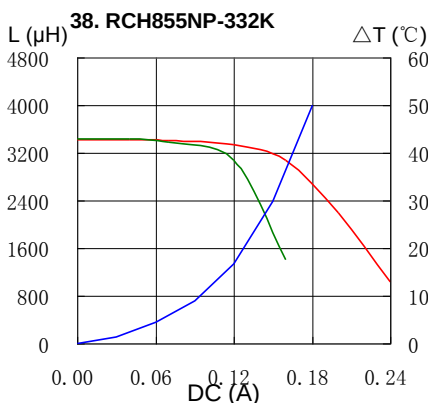
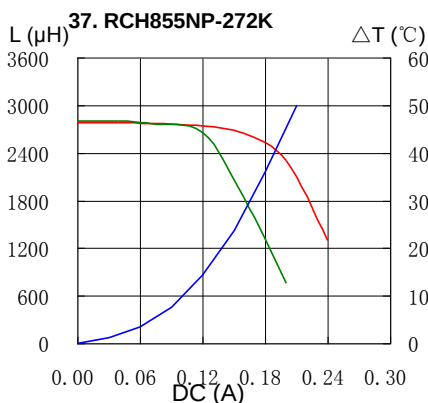


PIN Power Inductor RCH-855



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sumida:

<u>RCH855NP-221K</u>	<u>RCH855NP-103K</u>	<u>RCH855NP-8R2M</u>	<u>RCH855NP-5R0M</u>	<u>RCH855NP-391K</u>	<u>RCH855NP-470K</u>
<u>RCH855NP-150M</u>	<u>RCH855NP-3R3M</u>	<u>RCH855NP-270K</u>	<u>RCH855NP-392K</u>	<u>RCH855NP-821K</u>	<u>RCH855NP-100M</u>
<u>RCH855NP-682K</u>	<u>RCH855NP-5R9M</u>	<u>RCH855NP-472K</u>	<u>RCH855NP-152K</u>	<u>RCH855NP-180M</u>	<u>RCH855NP-272K</u>
<u>RCH855NP-560K</u>	<u>RCH855NP-181K</u>	<u>RCH855NP-4R1M</u>	<u>RCH855NP-331K</u>	<u>RCH855NP-330K</u>	<u>RCH855NP-6R8M</u>
<u>RCH855NP-102K</u>	<u>RCH855NP-120M</u>	<u>RCH855NP-271K</u>	<u>RCH855NP-182K</u>	<u>RCH855NP-220K</u>	<u>RCH855NP-332K</u>
<u>RCH855NP-820K</u>	<u>RCH855NP-562K</u>	<u>RCH855NP-151K</u>	<u>RCH855NP-390K</u>	<u>RCH855NP-680K</u>	<u>RCH855NP-471K</u>
<u>RCH855NP-121K</u>	<u>RCH855NP-561K</u>	<u>RCH855NP-822K</u>	<u>RCH855NP-101K</u>	<u>RCH855NP-681K</u>	<u>RCH855NP-122K</u>
<u>RCH855NP-222K</u>	<u>RCH855NP-2R5M</u>				