

# PIN type Power Inductor

## RCH-875



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 7.5mm Max
- Product weight: 1.4 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



### Applications

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

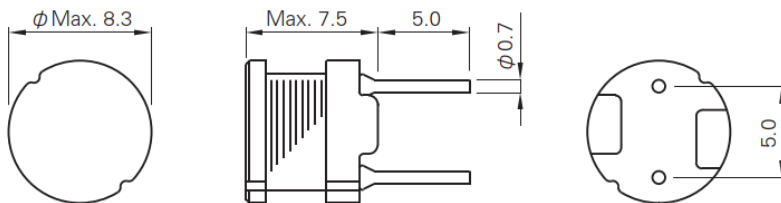
### Environmental Data

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

### Packaging

- Box packaging (100pcs/box).

### Dimensions - [mm]



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### Electrical Characteristics

Part Name	Inductance ( $\mu$ H) [Within]	D.C.R( $\Omega$ ) Max.	Saturation current (A) Max. (Typ.) 20°C ※1	Temperature rise current (A) (Typ.) ※2
RCH875NP-2R2M	2.2±20%	13.7m	5.80 (8.20)	(6.70)
RCH875NP-2R8M	2.8±20%	15.3m	5.00 (7.30)	(6.30)
RCH875NP-3R5M	3.5±20%	17.2m	4.70 (6.30)	(5.80)
RCH875NP-4R4M	4.4±20%	19.1m	4.50 (5.80)	(5.50)
RCH875NP-5R1M	5.1±20%	21.2m	4.20 (5.40)	(5.60)
RCH875NP-6R0M	6.0±20%	22.2m	4.00 (5.00)	(5.20)
RCH875NP-7R1M	7.1±20%	24.2m	3.40 (4.45)	(5.00)
RCH875NP-8R2M	8.2±20%	26.5m	3.10 (4.30)	(4.50)
RCH875NP-100M	10±20%	50.0m	2.90 (3.80)	(4.20)
RCH875NP-120M	12±20%	60.0m	2.50 (3.50)	(3.85)
RCH875NP-150K	15±10%	70.0m	2.20 (3.15)	(3.00)
RCH108NP-180K	18±10%	80.0m	1.90 (2.90)	(2.90)
RCH875NP-220K	22±10%	90.0m	1.80 (2.60)	(2.65)
RCH875NP-270K	27±10%	110m	1.70 (2.30)	(2.20)
RCH875NP-330K	33±10%	130m	1.50 (2.20)	(2.20)
RCH875NP-390K	39±10%	140m	1.30 (2.00)	(2.05)
RCH875NP-470K	47±10%	150m	1.30 (1.75)	(1.95)
RCH875NP-560K	56±10%	180m	1.20 (1.65)	(1.70)
RCH875NP-680K	68±10%	200m	1.10 (1.50)	(1.60)
RCH875NP-820K	68±10%	240m	1.00 (1.35)	(1.42)
RCH875NP-101K	100±10%	350m	890m (1.25)	(1.15)
RCH875NP-121K	120±10%	360m	810m (1.15)	(1.08)
RCH875NP-151K	150±10%	420m	720m (1.00)	(1.02)

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RCH875NP-181K	180±10%	570m	660m (910m)	(860m)
RCH875NP-221K	220±10%	630m	570m (780m)	(800m)
RCH875NP-271K	270±10%	880m	510m (740m)	(680m)
RCH875NP-331K	330±10%	1,050m	460m (650m)	(620m)
RCH875NP-391K	390±10%	1,170m	440m (620m)	(620m)
RCH875NP-471K	470±10%	1,340m	410m (560m)	(600m)
RCH875NP-561K	560±10%	1,720m	360m (520m)	(460m)
RCH875NP-681K	680±10%	1,960m	330m (470m)	(400m)
RCH875NP-821K	820±10%	2,560m	300m (420m)	(400m)
RCH875NP-102K	1000±10%	2,940m	270m (390m)	(370m)
RCH875NP-122K	1200±10%	4,040m	240m (340m)	(320m)
RCH875NP-152K	1500±10%	4,700m	220m (310m)	(290m)
RCH875NP-182K	1800±10%	5,050m	200m (280m)	(280m)
RCH875NP-222K	2200±10%	6,250m	180m (260m)	(250m)
RCH875NP-272K	2700±10%	8,720m	160m (240m)	(210m)
RCH875NP-332K	3300±10%	10,600m	150m (210m)	(190m)
RCH875NP-392K	3900±10%	14,200m	140m (200m)	(160m)
RCH875NP-472K	4700±10%	16,700m	120m (180m)	(150m)
RCH875NP-562K	5600±10%	18,700m	110m (170m)	(140m)
RCH875NP-682K	6800±10%	21,800m	100m (150m)	(140m)
RCH875NP-822K	8200±10%	28,700m	93.0m (140m)	(120m)
RCH875NP-103K	10000±10%	33,000m	84.0m (130m)	(110m)

※ 1 Saturation current: The value of DC current when the inductance becomes 10% lower than its initial value.

※ 2 Temperature rise current: The current when temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ )

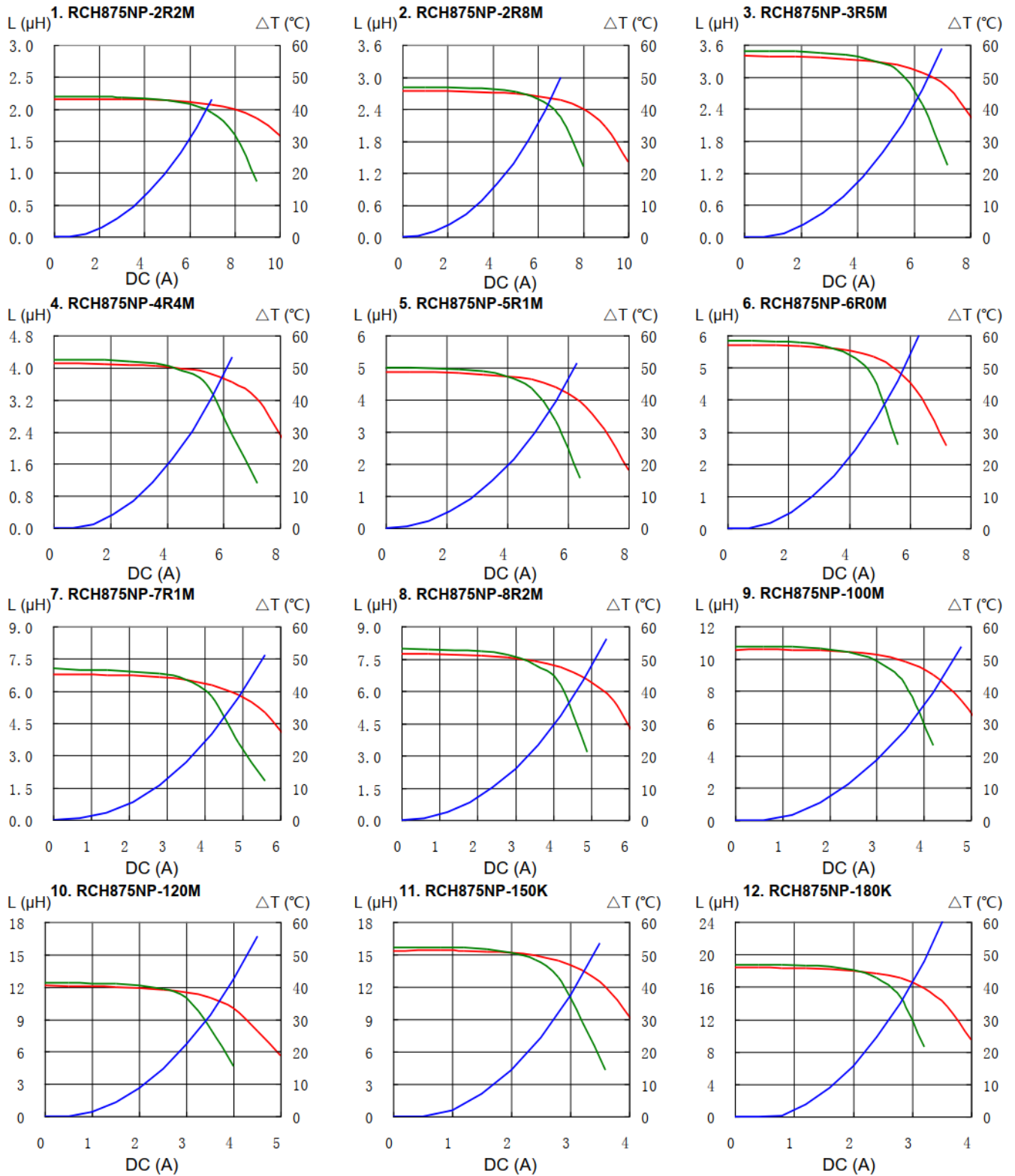
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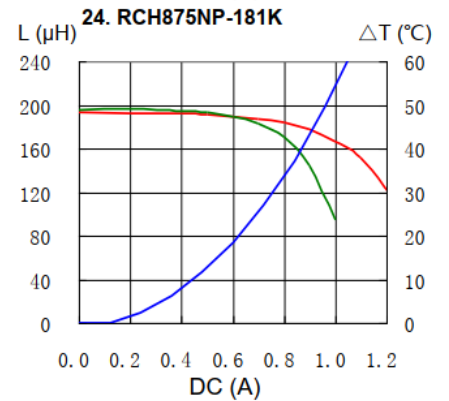
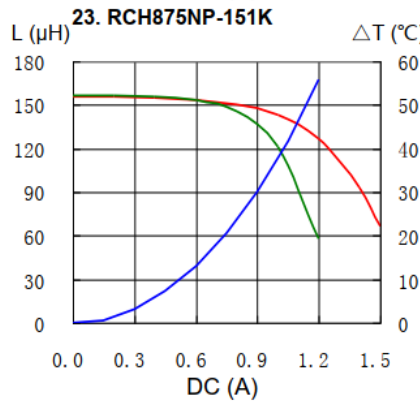
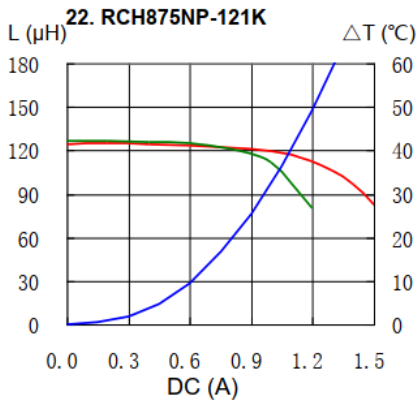
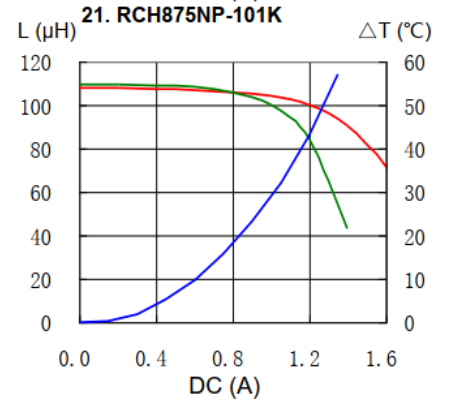
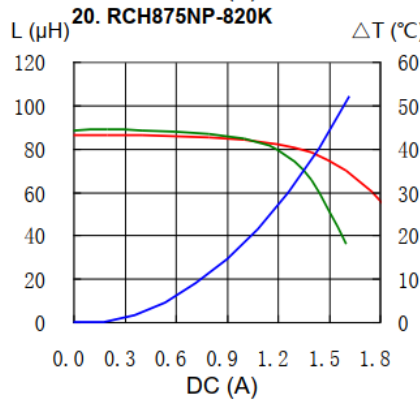
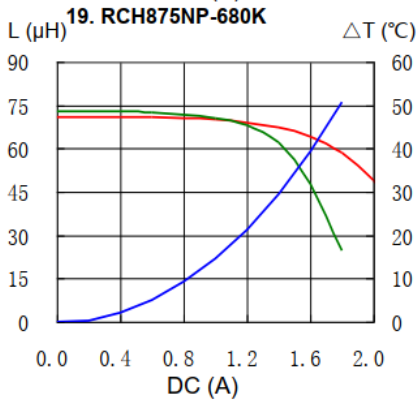
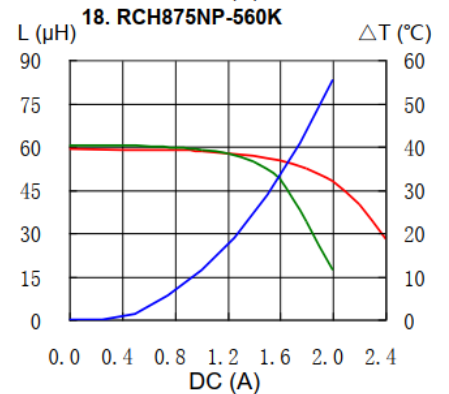
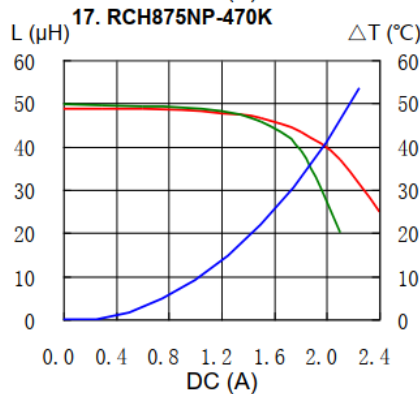
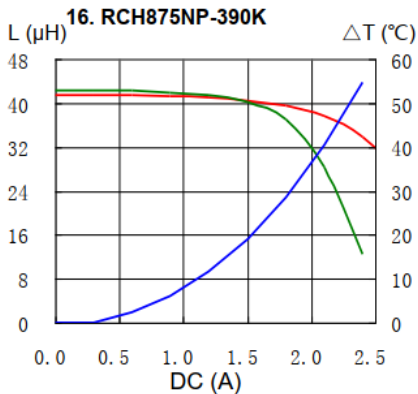
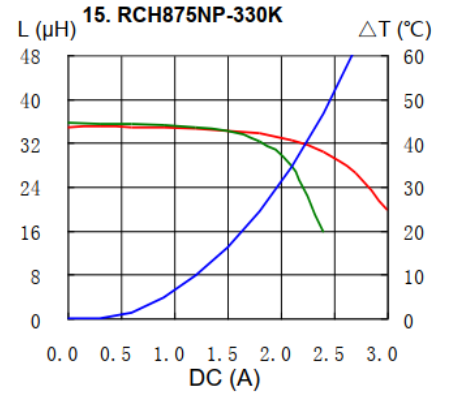
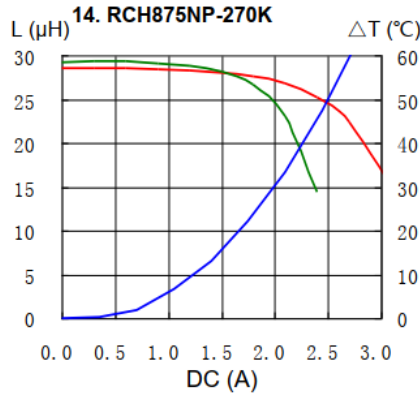
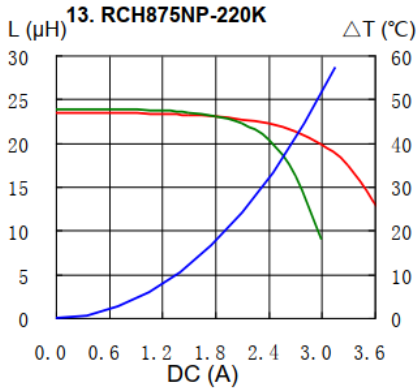
Saturation current & Temperature rise current — L (20°C) — L (100°C) —  $\Delta T$



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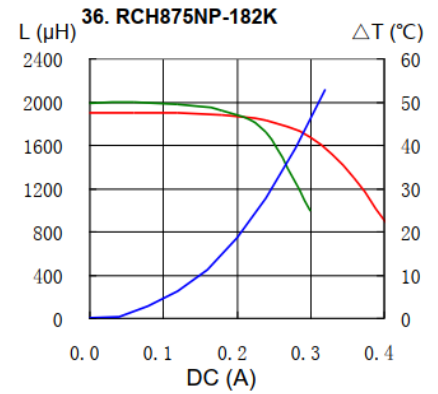
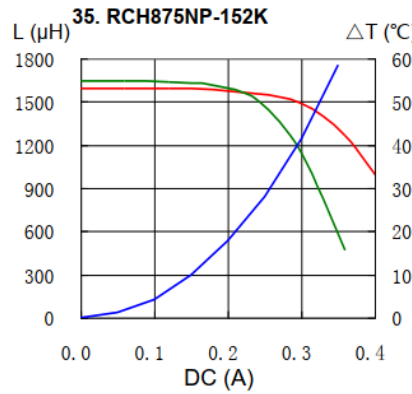
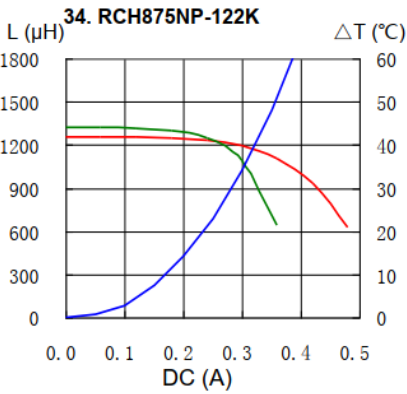
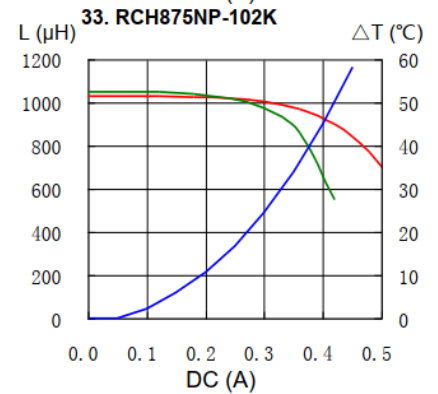
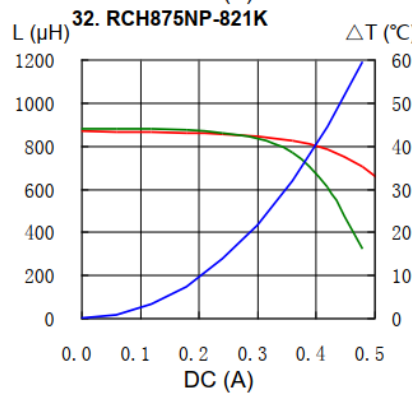
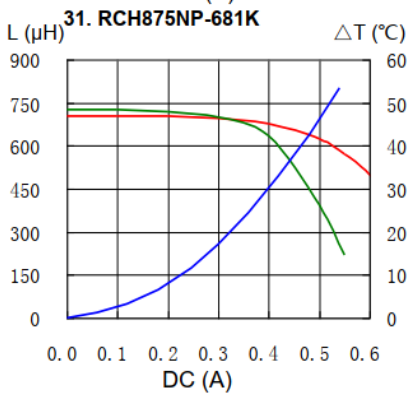
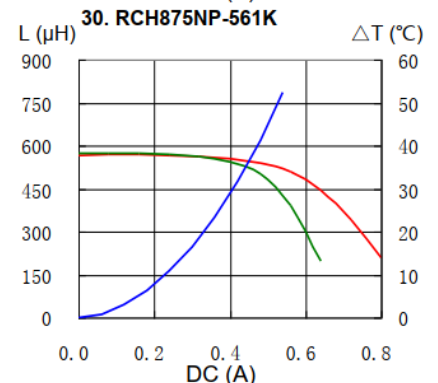
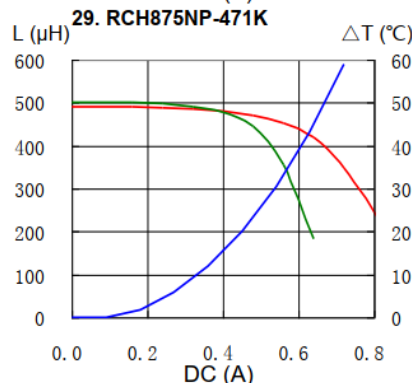
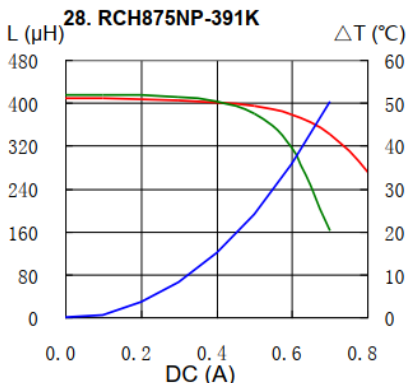
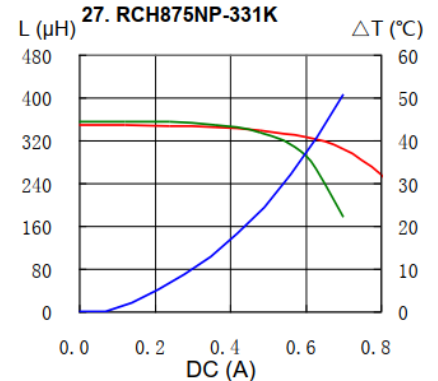
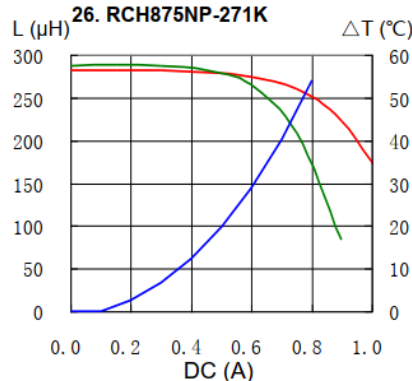
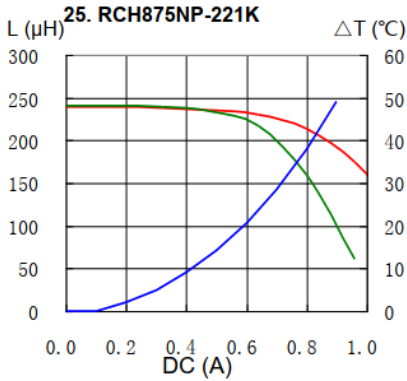
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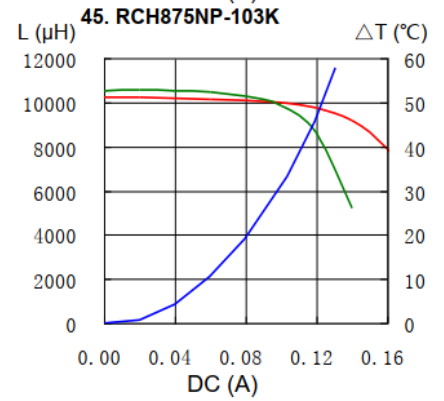
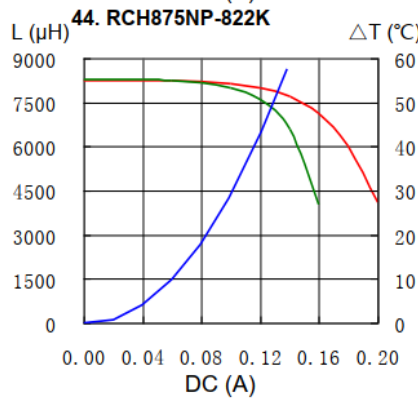
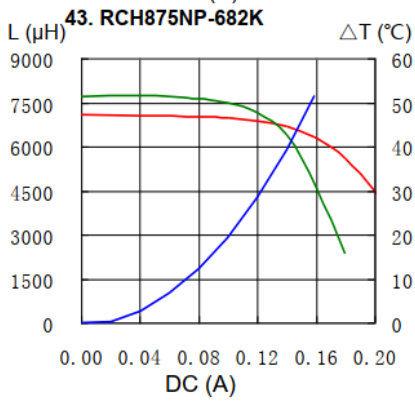
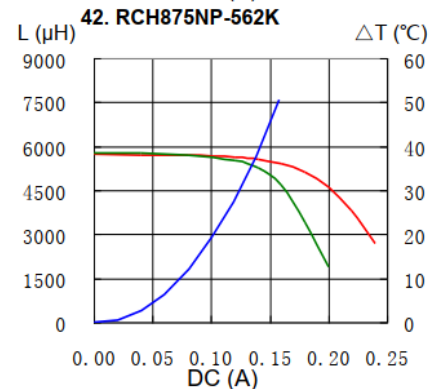
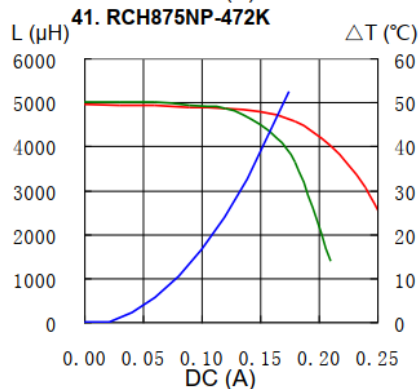
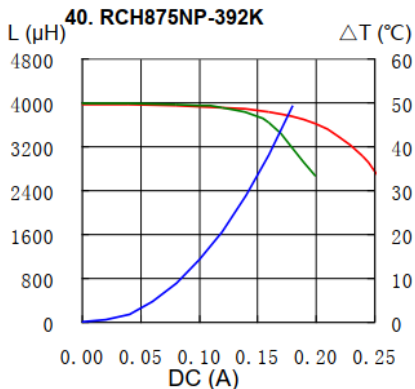
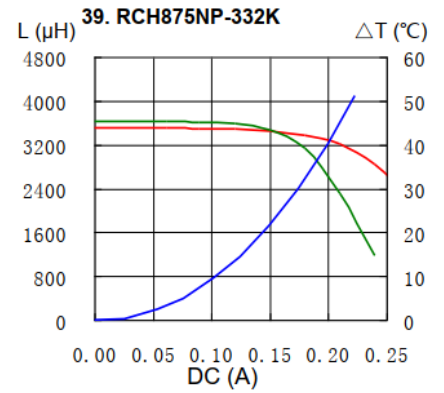
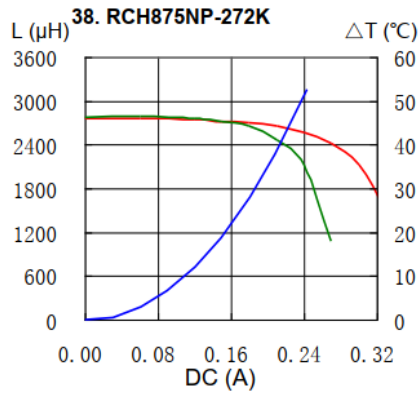
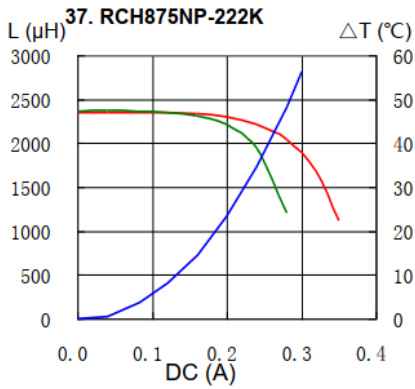
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