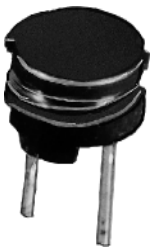
THE DATASHEET OF

RCH855NP-220K

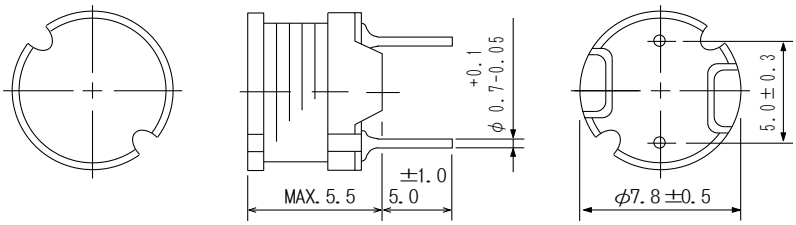
PIN Power Inductor
RCH-855



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

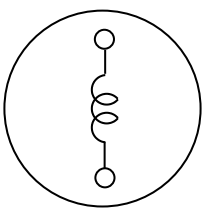
Dimension - [mm]



Packaging
- Box packaging.

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

Schematics - [mm]



Revised: 10-Jan-17

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

Electrical Characteristics

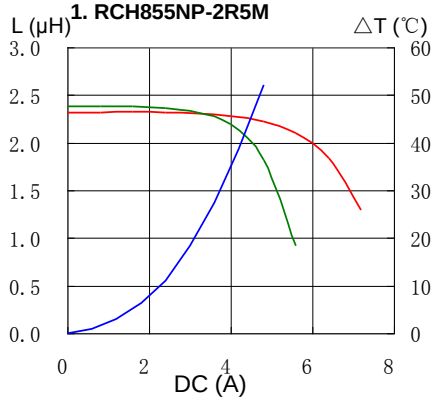
Part Name	Stamp	Inductance (μH) [Within] ※1	D.C.R(Ω) (Max.) (at20℃)	Saturation Current (A) ※2	Temperature rise current (A) ※3
RCH855NP-102K	102K	1000±10%	5.28	0.25	0.12
RCH855NP-122K	122K	1200±10%	6.03	0.23	0.11
RCH855NP-152K	152K	1500±10%	7.15	0.21	99m
RCH855NP-182K	182K	1800±10%	8.26	0.20	90m
RCH855NP-222K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

※1: Inductance Measuring frequency: 2.5μH ～ 8.2μH at 7.96MHz; 10μH ～ 82μH at 2.52MHz;100μH ～ 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 △t＝20℃.(Ta＝20℃).

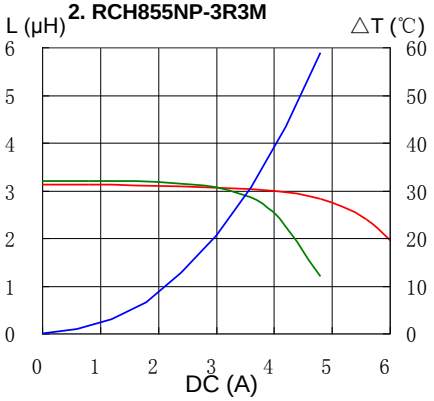
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

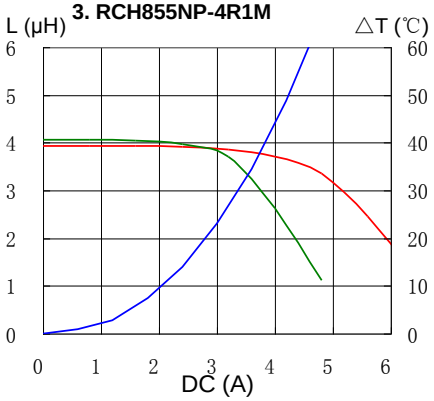
1. RCH855NP-2R5M



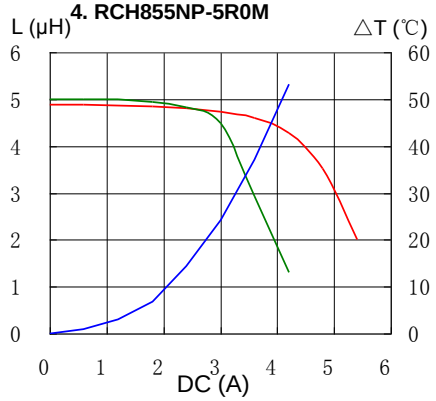
2. RCH855NP-3R3M



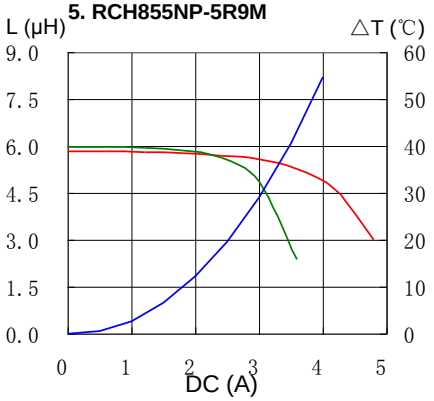
3. RCH855NP-4R1M



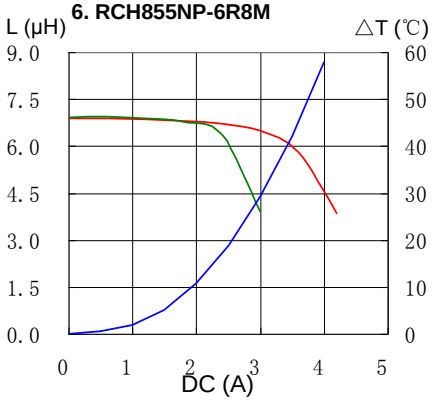
4. RCH855NP-5R0M



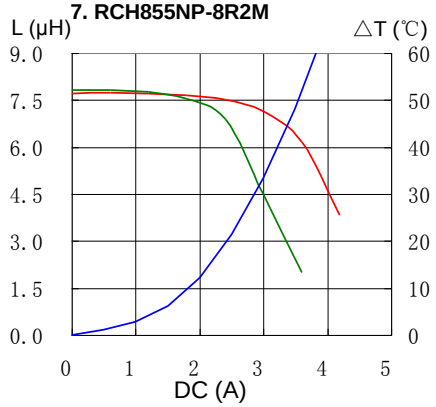
5. RCH855NP-5R9M



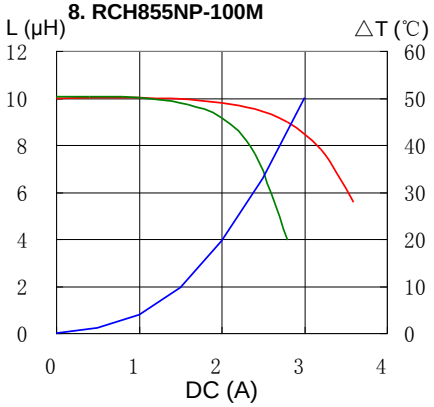
6. RCH855NP-6R8M



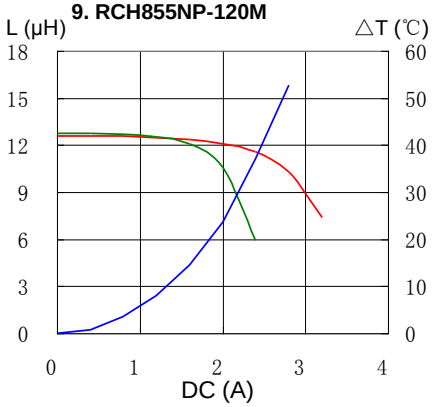
7. RCH855NP-8R2M



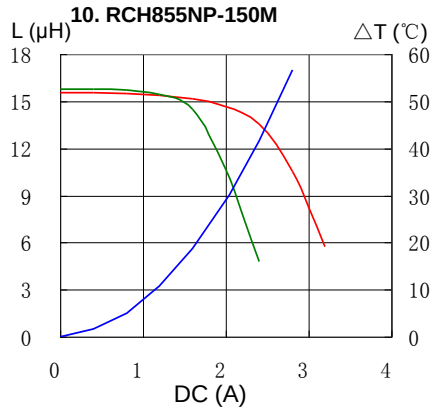
8. RCH855NP-100M



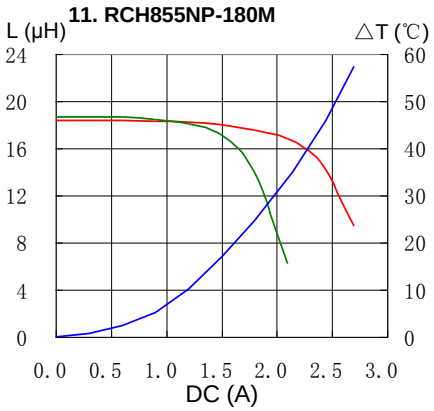
9. RCH855NP-120M



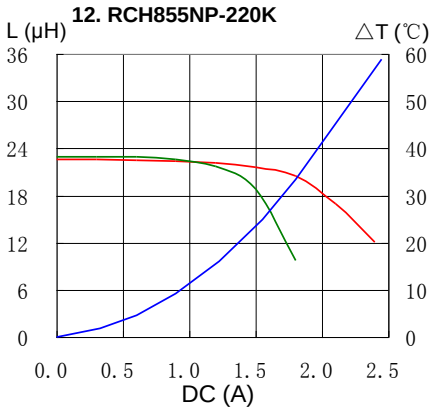
10. RCH855NP-150M



11. RCH855NP-180M



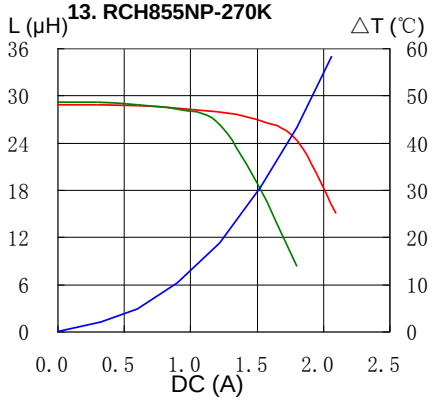
12. RCH855NP-220K



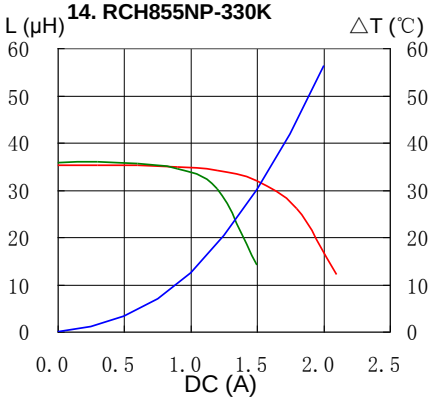
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

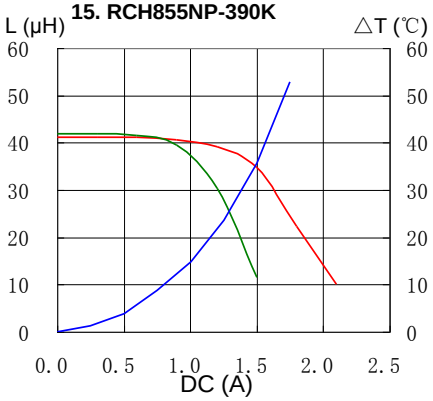
13. RCH855NP-270K



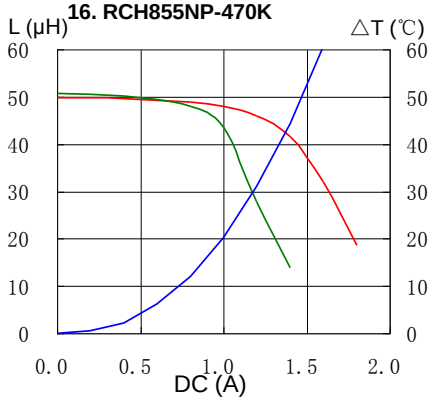
14. RCH855NP-330K



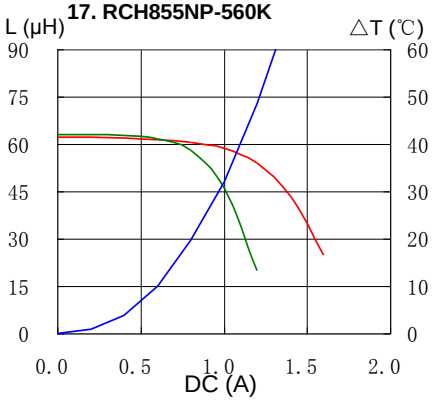
15. RCH855NP-390K



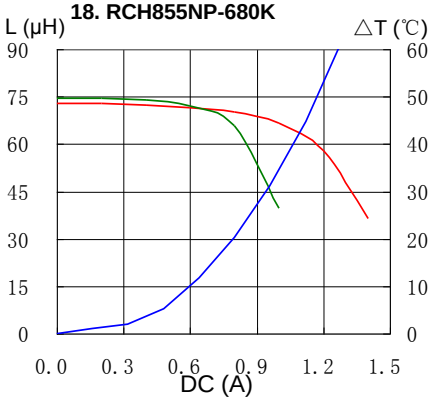
16. RCH855NP-470K



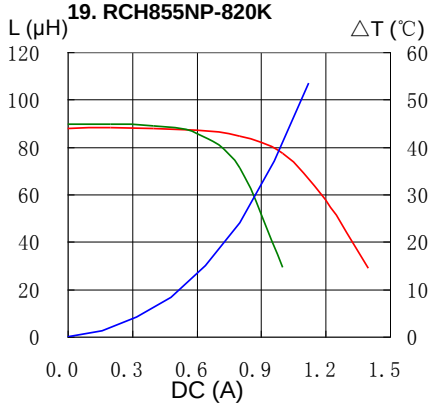
17. RCH855NP-560K



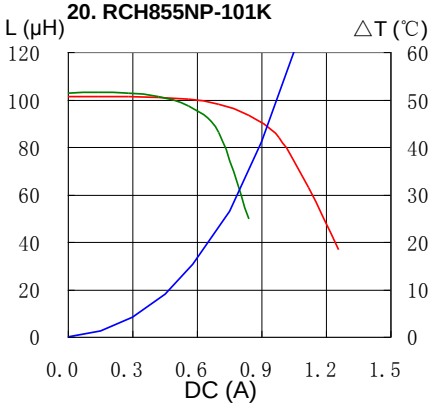
18. RCH855NP-680K



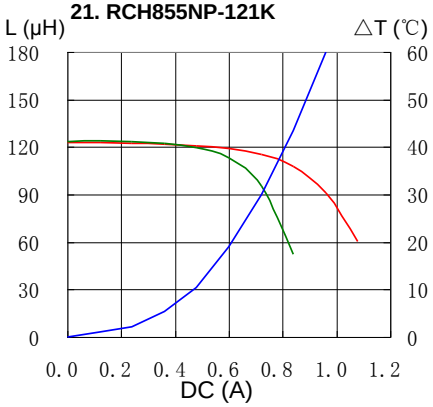
19. RCH855NP-820K



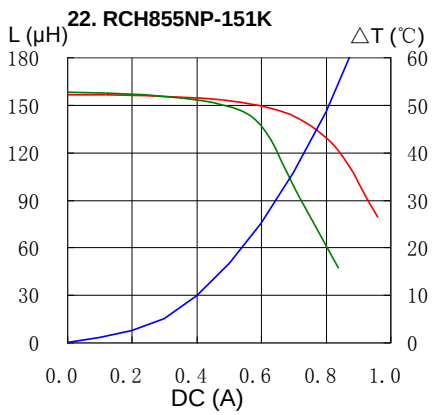
20. RCH855NP-101K



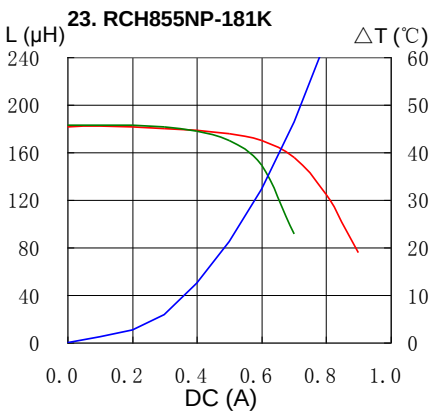
21. RCH855NP-121K



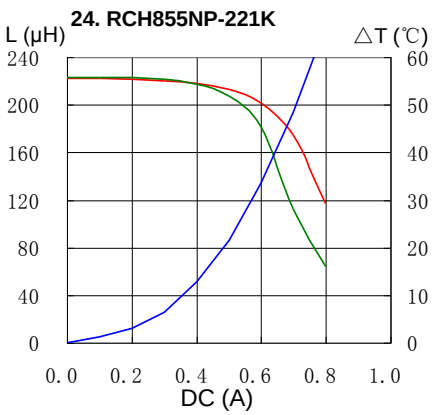
22. RCH855NP-151K



23. RCH855NP-181K



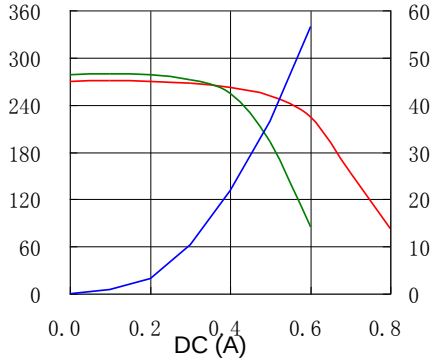
24. RCH855NP-221K



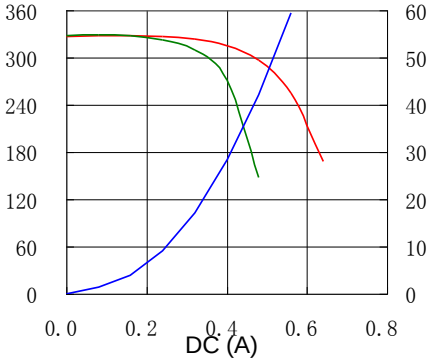
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

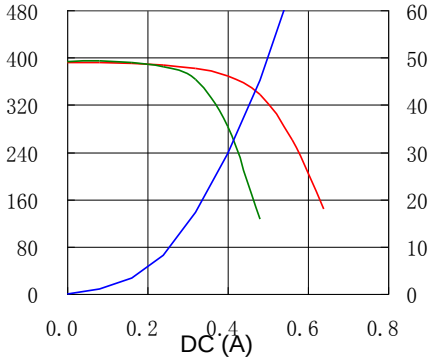
25. RCH855NP-271K



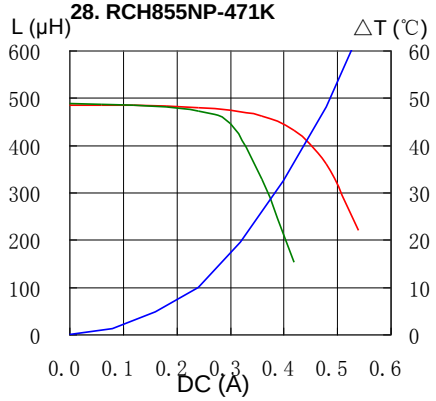
26. RCH855NP-331K



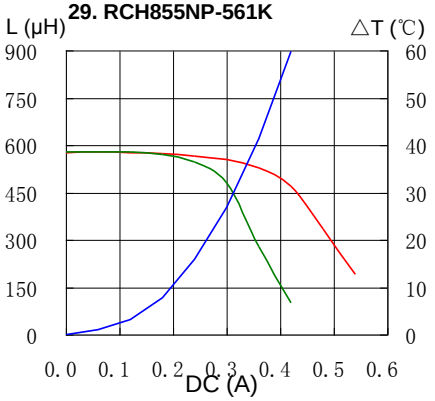
27. RCH855NP-391K



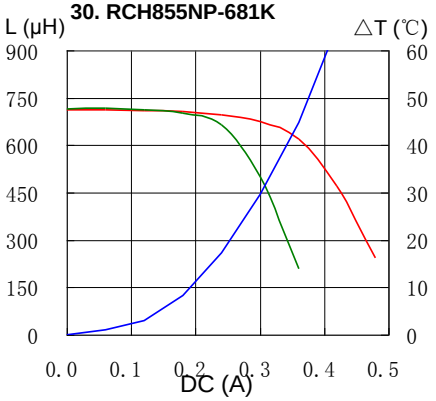
28. RCH855NP-471K



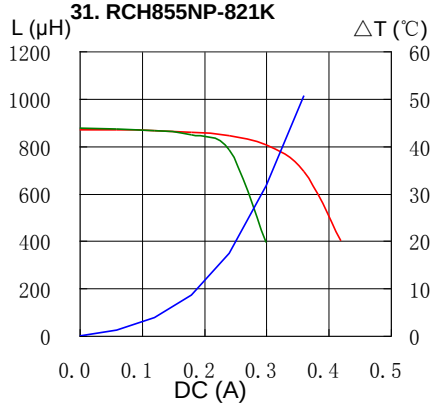
29. RCH855NP-561K



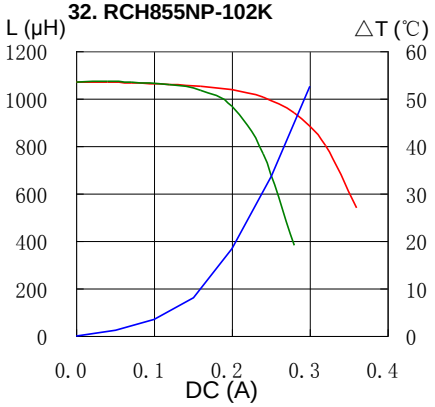
30. RCH855NP-681K



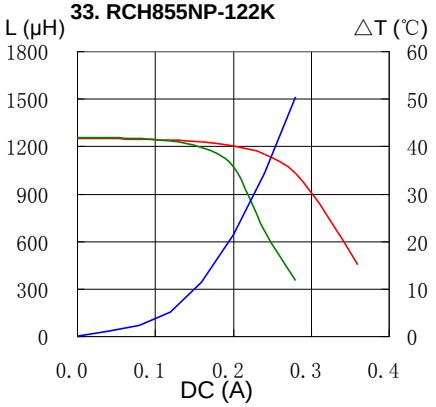
31. RCH855NP-821K



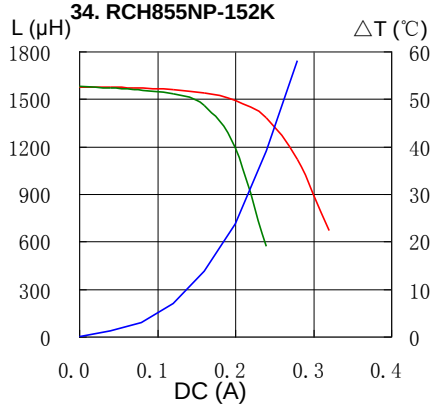
32. RCH855NP-102K



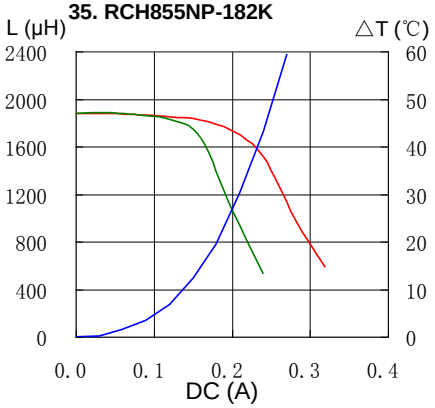
33. RCH855NP-122K



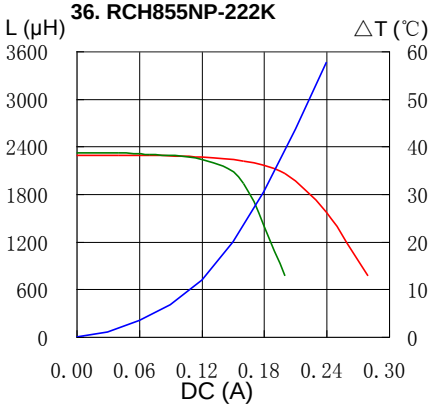
34. RCH855NP-152K



35. RCH855NP-182K



36. RCH855NP-222K

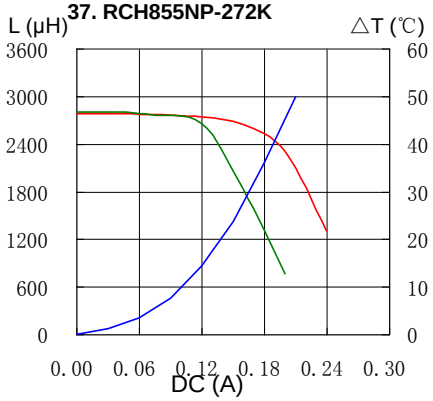


PIN Power Inductor
RCH-855

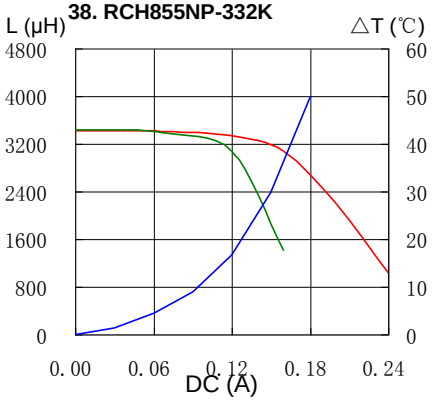
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

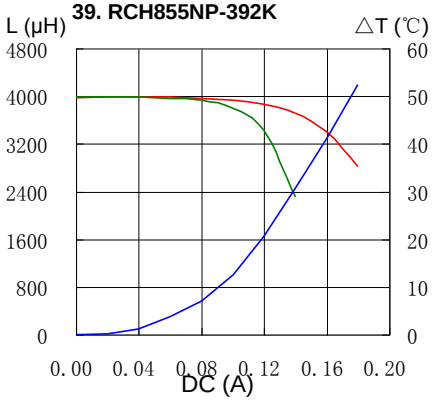
37. RCH855NP-272K



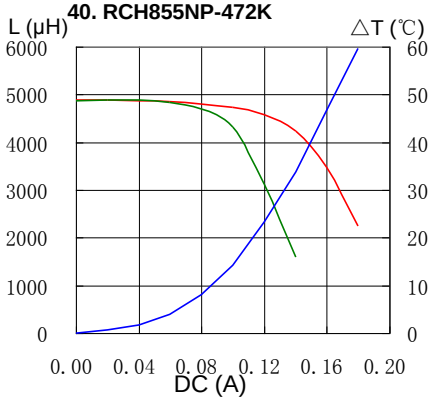
38. RCH855NP-332K



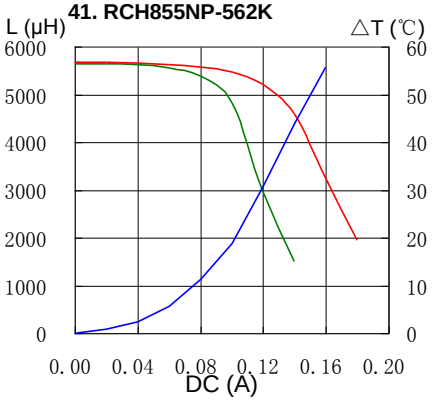
39. RCH855NP-392K



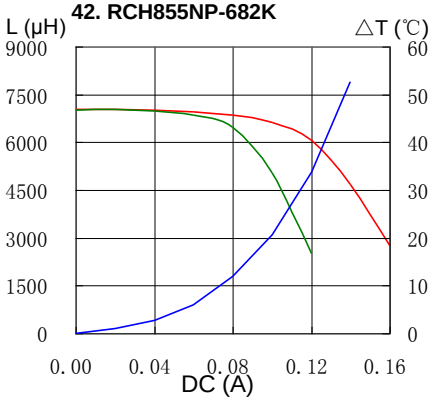
40. RCH855NP-472K



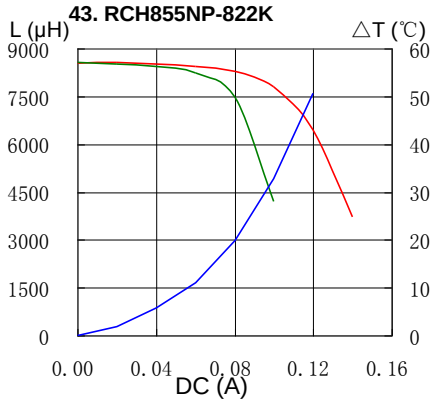
41. RCH855NP-562K



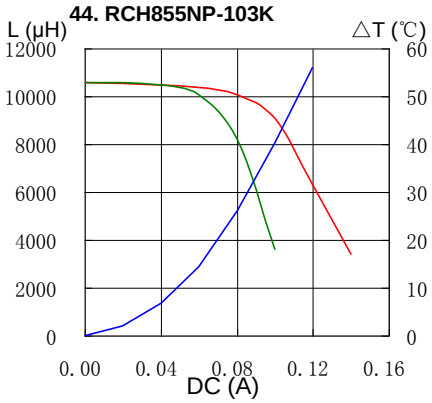
42. RCH855NP-682K



43. RCH855NP-822K



44. RCH855NP-103K



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