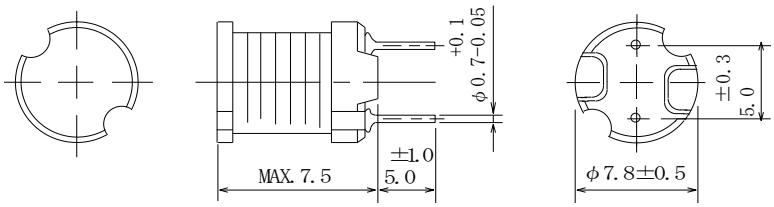
PIN Power Inductor
RCH-875

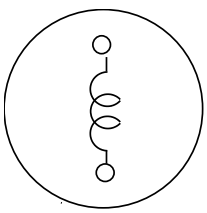
RoHS



Dimension - [mm]



Schematics - [mm]



Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 7.5mm Max.
- Product weight: 1.13g(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℃

Packaging
- Box packaging.

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

Revised: 21-Feb-24

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R (Ω) [Max.] (at20℃)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
RCH875NP-2R2M	2R2M	2.2 ± 20%	13.7m	5.8	3.0
RCH875NP-2R8M	2R8M	2.8 ± 20%	15.3m	5.0	2.9
RCH875NP-3R5M	3R5M	3.5 ± 20%	17.2m	4.7	2.8
RCH875NP-4R4M	4R4M	4.4 ± 20%	19.1m	4.5	2.7
RCH875NP-5R1M	5R1M	5.1 ± 20%	21.2m	4.2	2.6
RCH875NP-6R0M	6R0M	6.0 ± 20%	22.2m	4.0	2.5
RCH875NP-7R1M	7R1M	7.1 ± 20%	24.2m	3.4	2.3
RCH875NP-8R2M	8R2M	8.2 ± 20%	26.5m	3.1	2.2
RCH875NP-100M	100M	10 ± 20%	0.05	2.9	2.1
RCH875NP-120M	120M	12 ± 20%	0.06	2.5	1.8
RCH875NP-150K	150K	15 ± 10%	0.07	2.2	1.4
RCH875NP-180K	180K	18 ± 10%	0.08	1.9	1.3
RCH875NP-220K	220K	22 ± 10%	0.09	1.8	1.2
RCH875NP-270K	270K	27 ± 10%	0.11	1.7	1.0
RCH875NP-330K	330K	33 ± 10%	0.13	1.5	1.0
RCH875NP-390K	390K	39 ± 10%	0.14	1.3	0.95
RCH875NP-470K	470K	47 ± 10%	0.15	1.3	0.90
RCH875NP-560K	560K	56 ± 10%	0.18	1.2	0.73
RCH875NP-680K	680K	68 ± 10%	0.20	1.1	0.68
RCH875NP-820K	820K	82 ± 10%	0.24	1.0	0.63
RCH875NP-101K	101K	100 ± 10%	0.35	0.89	0.59
RCH875NP-121K	121K	120 ± 10%	0.36	0.81	0.50
RCH875NP-151K	151K	150 ± 10%	0.42	0.72	0.46
RCH875NP-181K	181K	180 ± 10%	0.57	0.66	0.41
RCH875NP-221K	221K	220 ± 10%	0.63	0.57	0.38
RCH875NP-271K	271K	270 ± 10%	0.88	0.51	0.32
RCH875NP-331K	331K	330 ± 10%	1.05	0.46	0.30
RCH875NP-391K	391K	390 ± 10%	1.17	0.44	0.29

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (Ω) [Max.] (at20℃)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
RCH875NP-471K	471K	470 ± 10%	1.34	0.41	0.28
RCH875NP-561K	561K	560 ± 10%	1.72	0.36	0.23
RCH875NP-681K	681K	680 ± 10%	1.96	0.33	0.22
RCH875NP-821K	821K	820 ± 10%	2.56	0.30	0.19
RCH875NP-102K	102K	1.0mH ± 10%	2.94	0.27	0.18
RCH875NP-122K	122K	1.2mH ± 10%	4.04	0.24	0.16
RCH875NP-152K	152K	1.5mH ± 10%	4.70	0.22	0.15
RCH875NP-182K	182K	1.8mH ± 10%	5.05	0.20	0.14
RCH875NP-222K	222K	2.2mH ± 10%	6.25	0.18	0.13
RCH875NP-272K	272K	2.7mH ± 10%	8.72	0.16	0.10
RCH875NP-332K	332K	3.3mH ± 10%	10.6	0.15	95m
RCH875NP-392K	392K	3.9mH ± 10%	14.2	0.14	81m
RCH875NP-472K	472K	4.7mH ± 10%	16.7	0.12	74m
RCH875NP-562K	562K	5.6mH ± 10%	18.7	0.11	69m
RCH875NP-682K	682K	6.8mH ± 10%	21.8	0.10	67m
RCH875NP-822K	822K	8.2mH ± 10%	28.7	93m	63m
RCH875NP-103K	103K	10mH ± 10%	33.0	84m	54m

※1: Inductance measuring frequency: 2.2μH ～8.2μH at 7.96MHz
10μH ～ 82μH at 2.52MHz
100μH ～10mH at 1 kHz

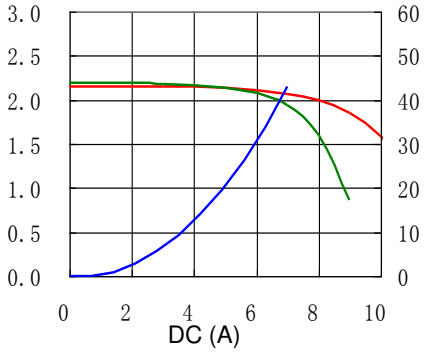
※2: Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

※3: Temperature rise current: The DC current at which the temperature rise is △t＝20℃.(Ta＝20℃).

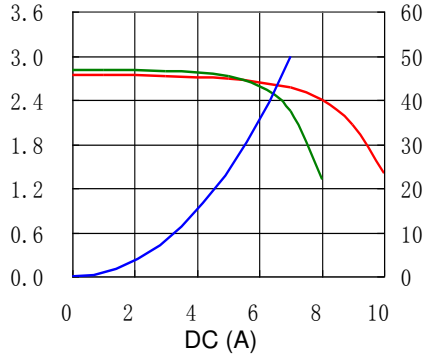
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

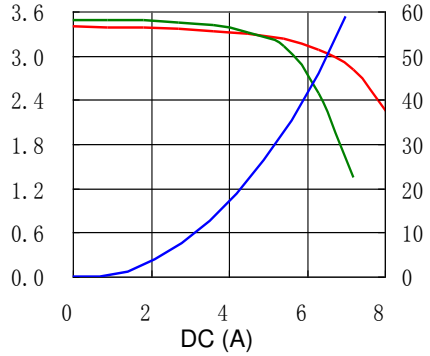
1. RCH875NP-2R2M



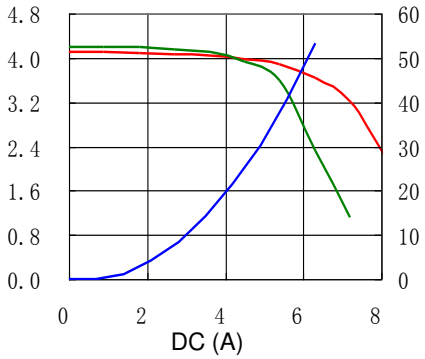
2. RCH875NP-2R8M



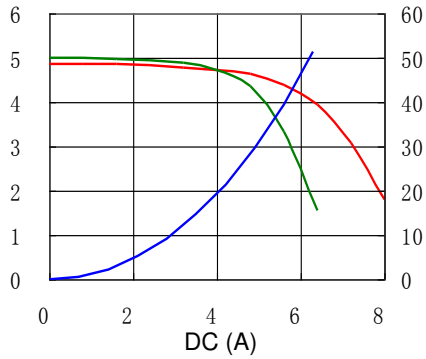
3. RCH875NP-3R5M



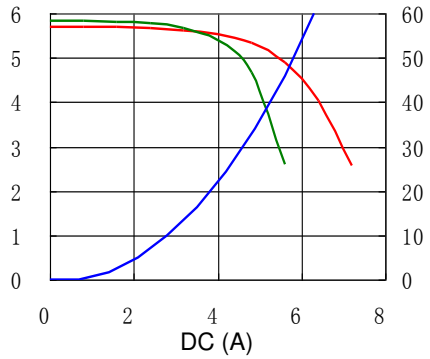
4. RCH875NP-4R4M



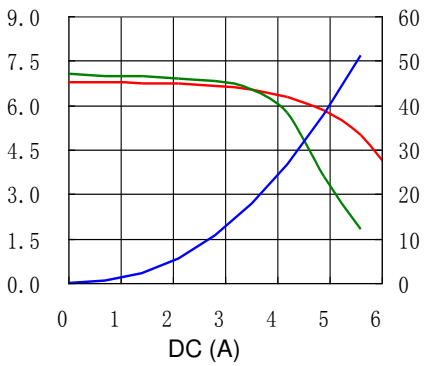
5. RCH875NP-5R1M



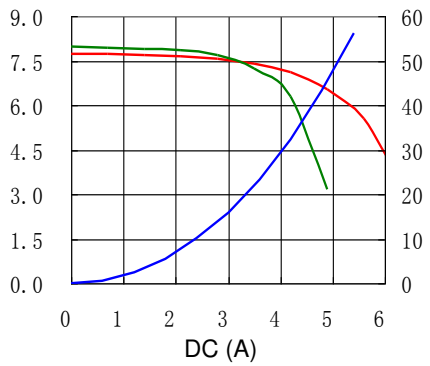
6. RCH875NP-6R0M



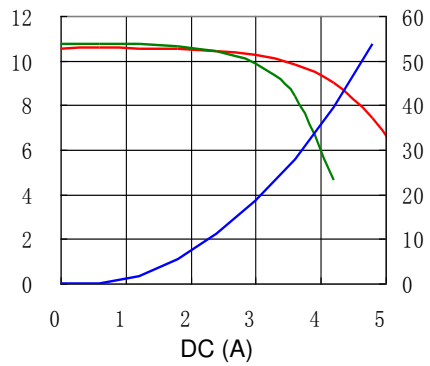
7. RCH875NP-7R1M



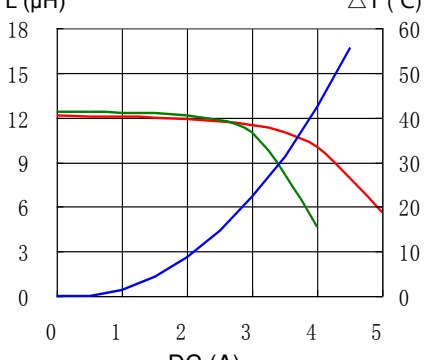
8. RCH875NP-8R2M



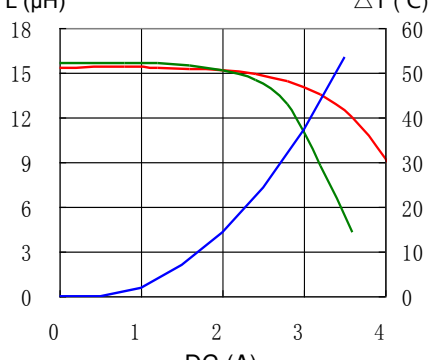
9. RCH875NP-100M



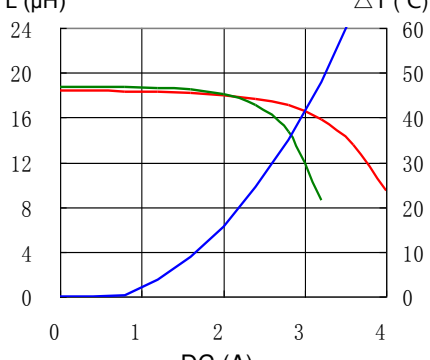
10. RCH875NP-120M



11. RCH875NP-150K



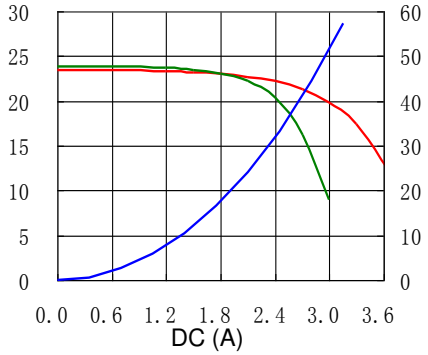
12. RCH875NP-180K



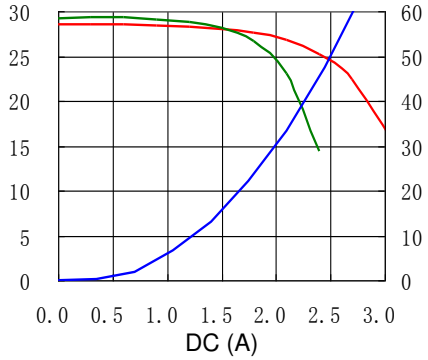
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

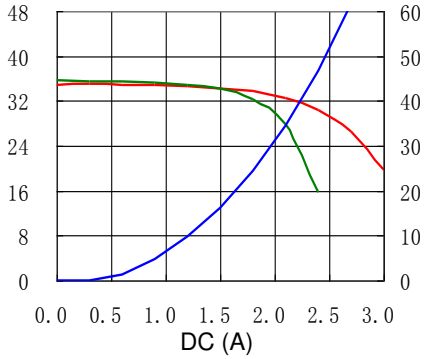
13. RCH875NP-220K



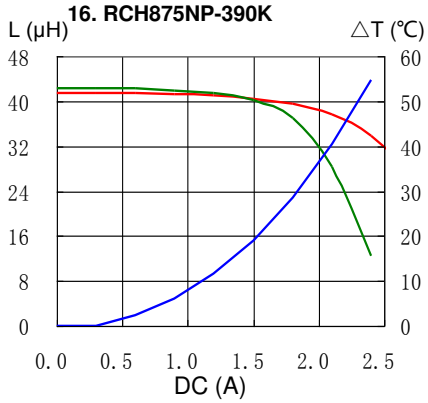
14. RCH875NP-270K



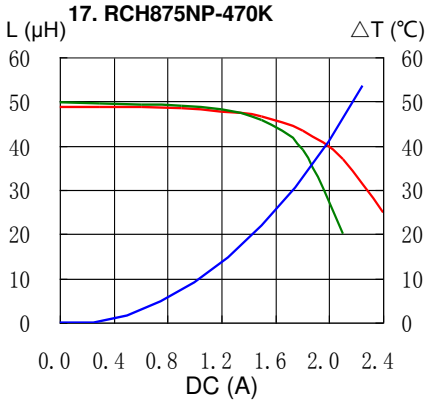
15. RCH875NP-330K



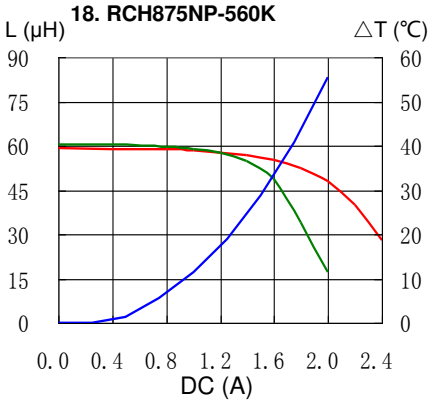
16. RCH875NP-390K



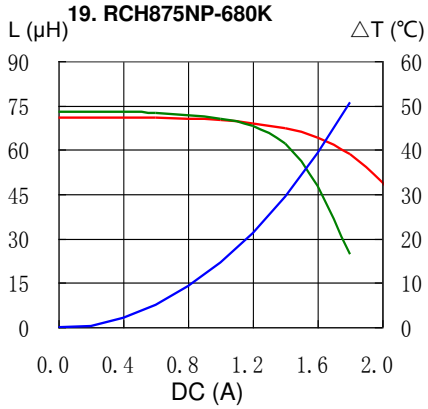
17. RCH875NP-470K



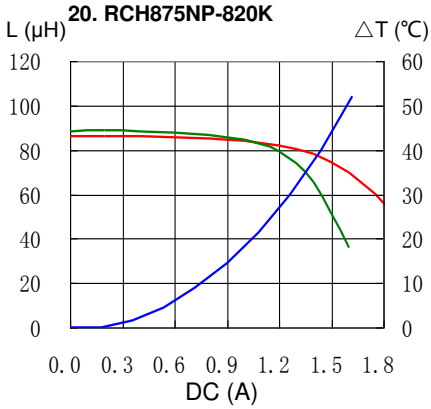
18. RCH875NP-560K



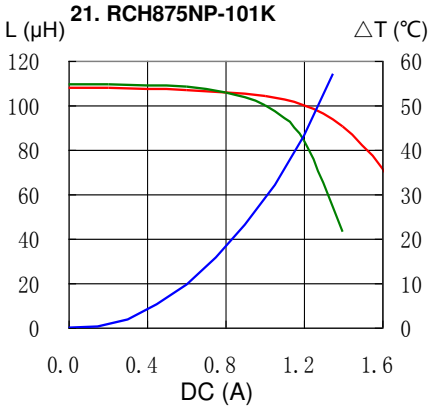
19. RCH875NP-680K



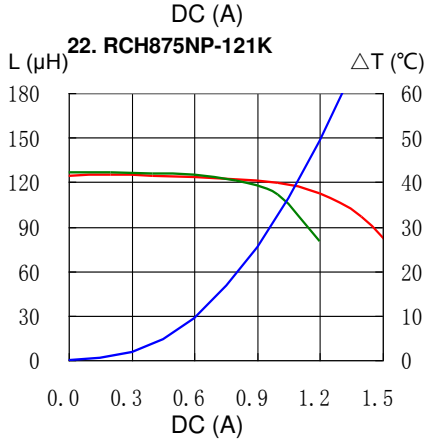
20. RCH875NP-820K



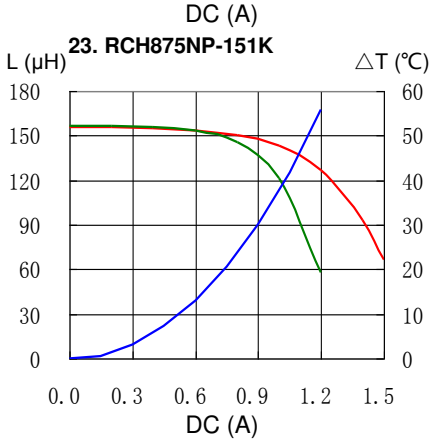
21. RCH875NP-101K



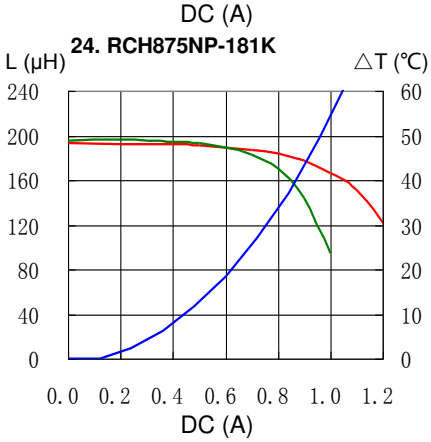
22. RCH875NP-121K



23. RCH875NP-151K



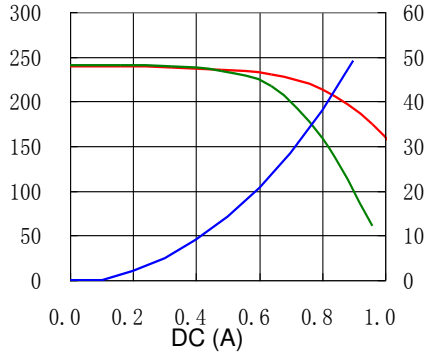
24. RCH875NP-181K



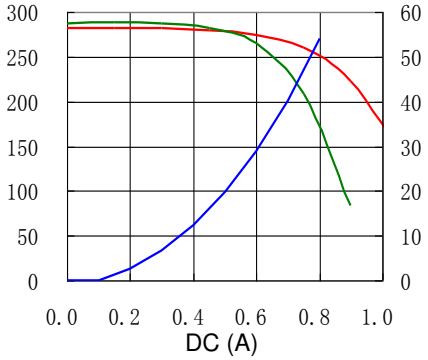
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

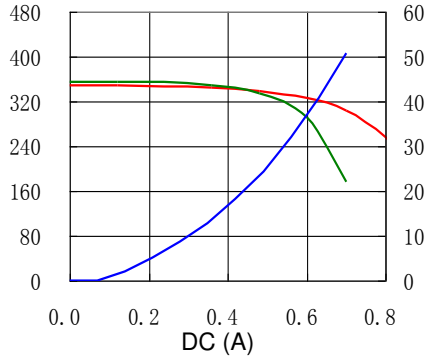
25. RCH875NP-221K



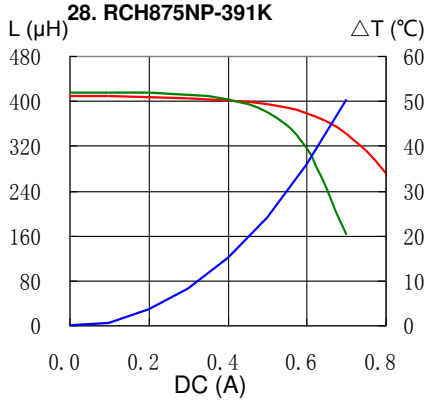
26. RCH875NP-271K



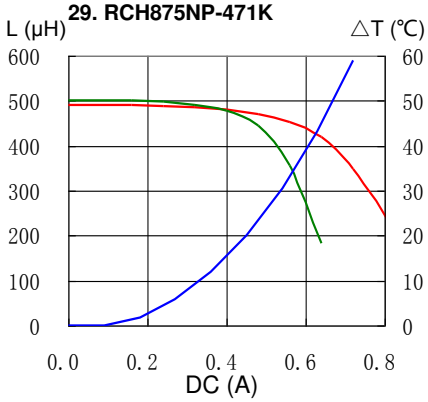
27. RCH875NP-331K



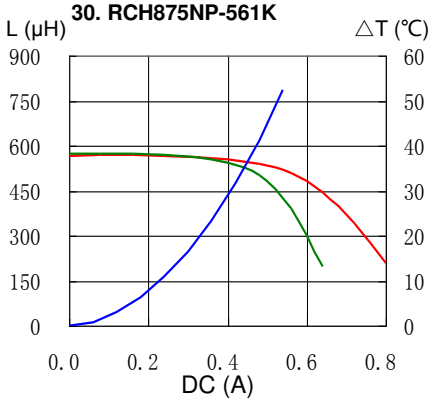
28. RCH875NP-391K



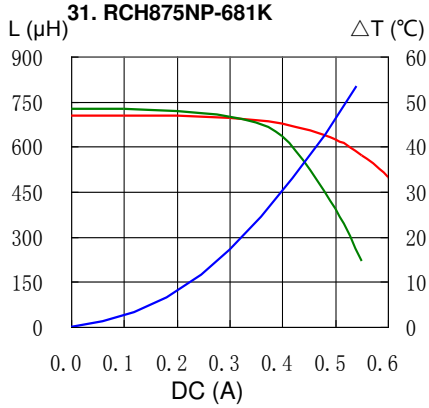
29. RCH875NP-471K



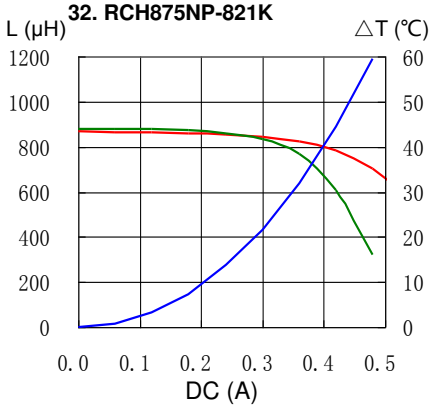
30. RCH875NP-561K



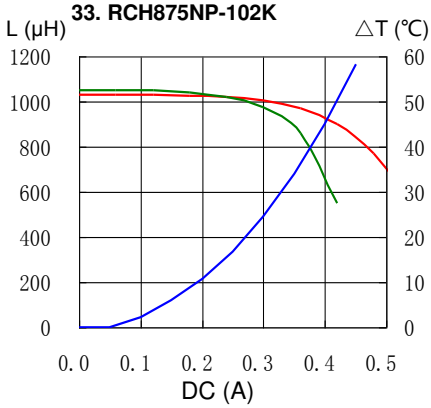
31. RCH875NP-681K



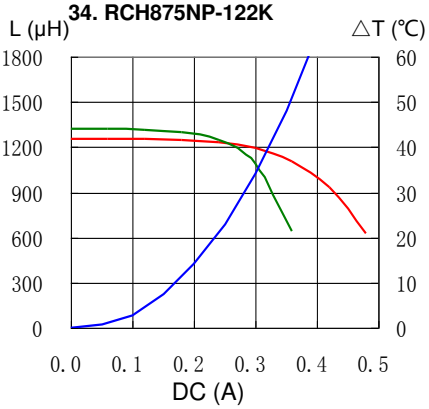
32. RCH875NP-821K



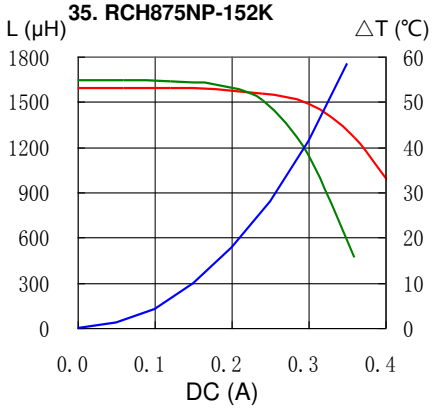
33. RCH875NP-102K



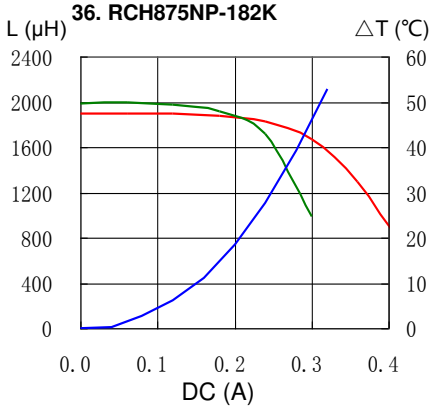
34. RCH875NP-122K



35. RCH875NP-152K



36. RCH875NP-182K

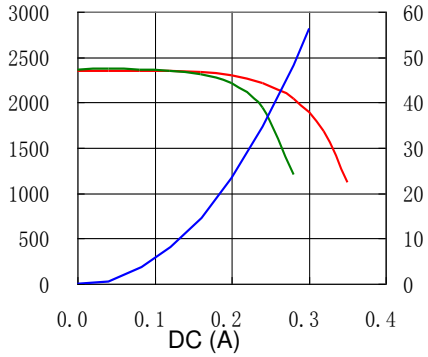


PIN Power Inductor
RCH-875

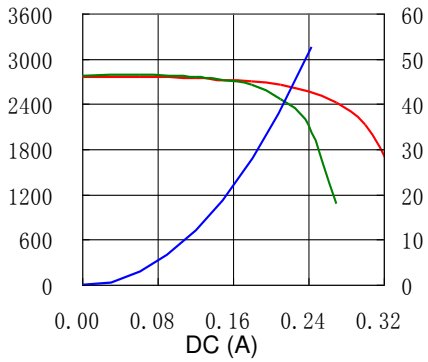
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

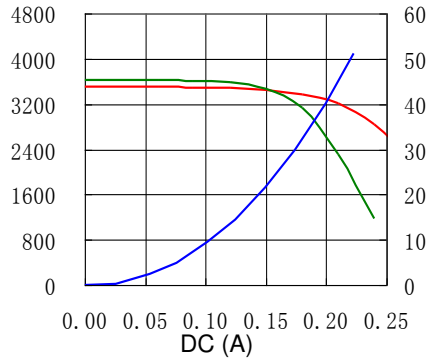
37. RCH875NP-222K



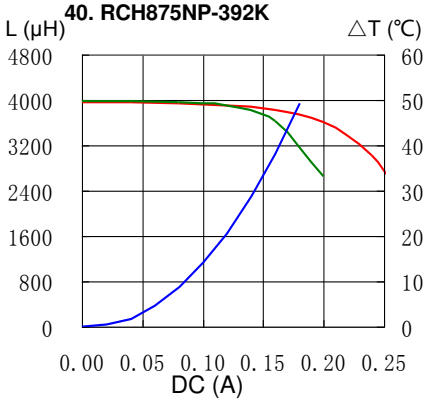
38. RCH875NP-272K



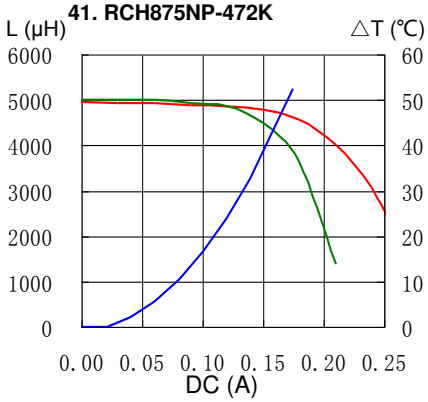
39. RCH875NP-332K



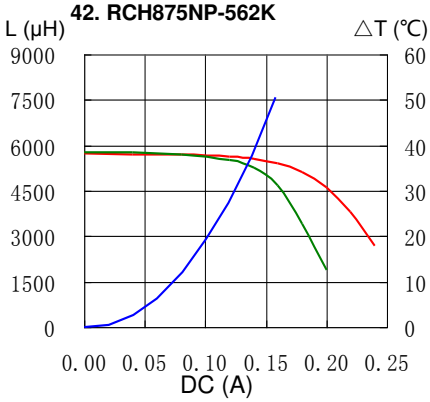
40. RCH875NP-392K



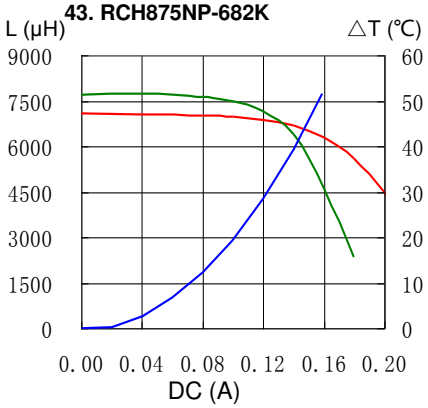
41. RCH875NP-472K



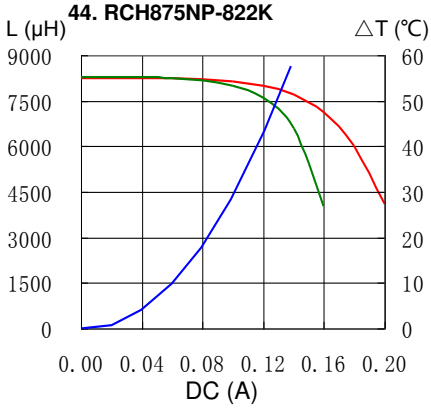
42. RCH875NP-562K



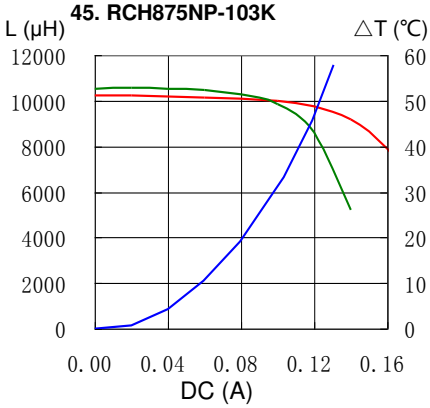
43. RCH875NP-682K



44. RCH875NP-822K



45. RCH875NP-103K



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