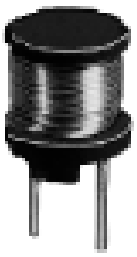
THE DATASHEET OF

RCH895NP-472K

PIN Power Inductor
RCH-895

RoHS



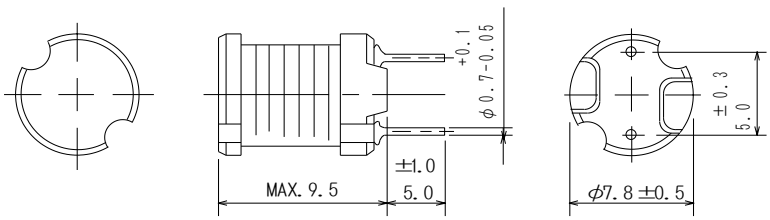
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 9.5mm Max.
- Product weight: 1.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

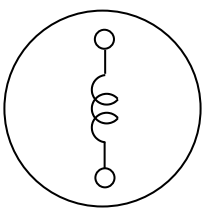
Packaging
- Box packaging.

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

Dimension - [mm]



Schematics - [mm]



Revised: 10-Jan-17

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [Within] ※ 1	D.C.R [Max.] (Ω) (at20℃)	Saturation Current (A) ※2	Temperature rise current (A) ※3
RCH895NP-2R5M	2R5M	2.5μH ± 20%	13.7m	5.0	3.2
RCH895NP-3R2M	3R2M	3.2μH ± 20%	15.3m	4.5	2.9
RCH895NP-3R8M	3R8M	3.8μH ± 20%	16.4m	4.1	2.7
RCH895NP-4R6M	4R6M	4.6μH ± 20%	18.5m	3.7	2.5
RCH895NP-5R5M	5R5M	5.5μH ± 20%	20.2m	3.4	2.4
RCH895NP-6R5M	6R5M	6.5μH ± 20%	20.8m	3.2	2.3
RCH895NP-7R7M	7R7M	7.7μH ± 20%	22.4m	2.9	2.2
RCH895NP-9R2M	9R2M	9.2μH ± 20%	24.1m	2.7	2.1
RCH895NP-100M	100M	10 μH ± 20%	0.04	2.6	2.0
RCH895NP-120M	120M	12 μH ± 20%	0.04	2.6	1.9
RCH895NP-150K	150K	15 μH ± 10%	0.05	2.1	1.8
RCH895NP-180K	180K	18 μH ± 10%	0.05	2.0	1.6
RCH895NP-220K	220K	22 μH ± 10%	0.06	1.7	1.4
RCH895NP-270K	270K	27 μH ± 10%	0.06	1.6	1.3
RCH895NP-330K	330K	33 μH ± 10%	0.07	1.4	1.1
RCH895NP-390K	390K	39 μH ± 10%	0.08	1.4	1.1
RCH895NP-470K	470K	47 μH ± 10%	0.10	1.3	0.99
RCH895NP-560K	560K	56 μH ± 10%	0.11	1.2	0.90
RCH895NP-680K	680K	68 μH ± 10%	0.14	1.1	0.81
RCH895NP-820K	820K	82 μH ± 10%	0.16	1.0	0.76
RCH895NP-101K	101K	100μH ± 10%	0.19	0.90	0.72
RCH895NP-121K	121K	120μH ± 10%	0.22	0.82	0.67
RCH895NP-151K	151K	150μH ± 10%	0.27	0.74	0.61
RCH895NP-181K	181K	180μH ± 10%	0.31	0.71	0.54
RCH895NP-221K	221K	220μH ± 10%	0.38	0.64	0.50
RCH895NP-271K	271K	270μH ± 10%	0.53	0.57	0.41
RCH895NP-331K	331K	330μH ± 10%	0.61	0.51	0.39
RCH895NP-391K	391K	390μH ± 10%	0.69	0.48	0.37
RCH895NP-471K	471K	470μH ± 10%	0.89	0.43	0.32
RCH895NP-561K	561K	560μH ± 10%	1.01	0.40	0.30
RCH895NP-681K	681K	680μH ± 10%	1.18	0.35	0.27
RCH895NP-821K	821K	820μH ± 10%	1.57	0.32	0.24

Electrical Characteristics

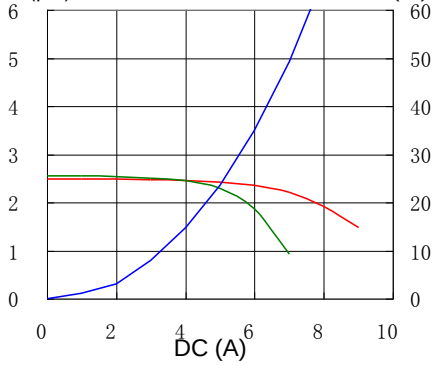
Part Name	Stamp	Inductance (mH) [Within] ※ 1	D.C.R [Max.] (Ω) (at20℃)	Saturation Current (A) ※ 2	Temperature rise current (A) ※3
RCH895NP-102K	102K	1.0mH ± 10%	1.84	0.30	0.22
RCH895NP-122K	122K	1.2mH ± 10%	2.10	0.27	0.21
RCH895NP-152K	152K	1.5mH ± 10%	2.80	0.23	0.18
RCH895NP-182K	182K	1.8mH ± 10%	3.21	0.21	0.17
RCH895NP-222K	222K	2.2mH ± 10%	4.21	0.19	0.15
RCH895NP-272K	272K	2.7mH ± 10%	4.94	0.17	0.14
RCH895NP-332K	332K	3.3mH ± 10%	6.16	0.15	0.12
RCH895NP-392K	392K	3.9mH ± 10%	6.84	0.14	0.11
RCH895NP-472K	472K	4.7mH ± 10%	7.89	0.13	0.10
RCH895NP-562K	562K	5.6mH ± 10%	11.5	0.12	86m
RCH895NP-682K	682K	6.8mH ± 10%	13.2	0.11	80m
RCH895NP-822K	822K	8.2mH ± 10%	15.3	0.10	75m
RCH895NP-103K	103K	10mH ± 10%	22.0	89m	62m
RCH895NP-123K	123K	12mH ± 10%	25.0	73m	59m
RCH895NP-153K	153K	15mH ± 10%	29.1	68m	57m
RCH895NP-183K	183K	18mH ± 10%	38.9	66m	48m
RCH895NP-223K	223K	22mH ± 10%	44.9	59m	42m
RCH895NP-273K	273K	27mH ± 10%	55.7	52m	39m
RCH895NP-333K	333K	33mH ± 10%	64.2	48m	37m
RCH895NP-393K	393K	39mH ± 10%	74.2	42m	35m
RCH895NP-473K	473K	47mH ± 10%	96.4	38m	31m

※1: Inductance Measuring frequency : 2.5μH ～ 9.2μH at 7.96MHz; 10μH ～ 82μH at 2.52MHz;100μH ～ 47 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℃).

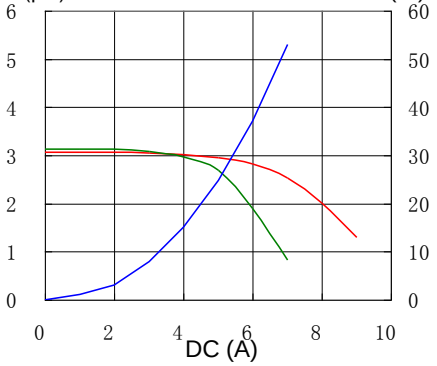
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

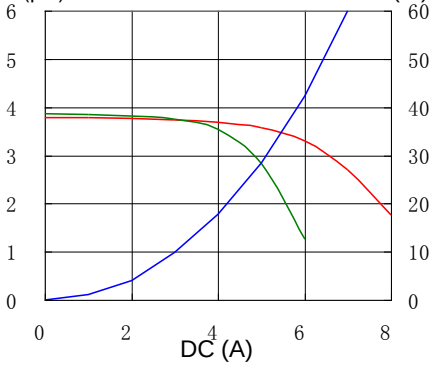
1. RCH895NP-2R5M



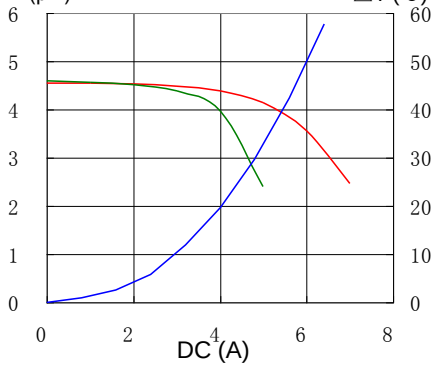
2. RCH895NP-3R2M



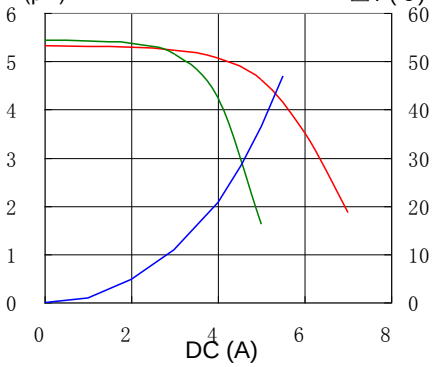
3. RCH895NP-3R8M



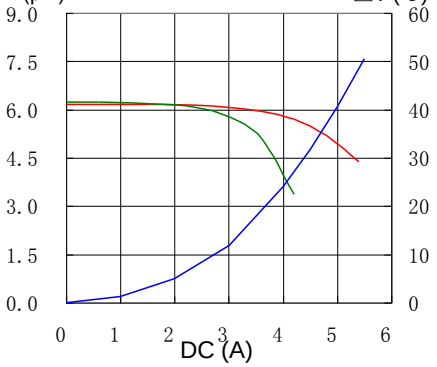
4. RCH895NP-4R6M



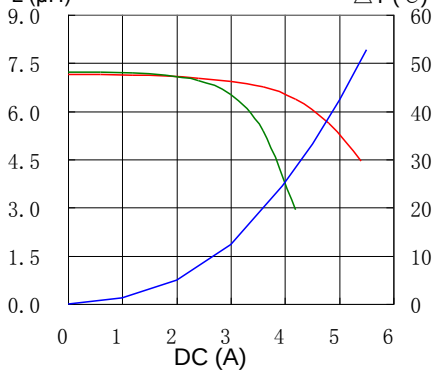
5. RCH895NP-5R5M



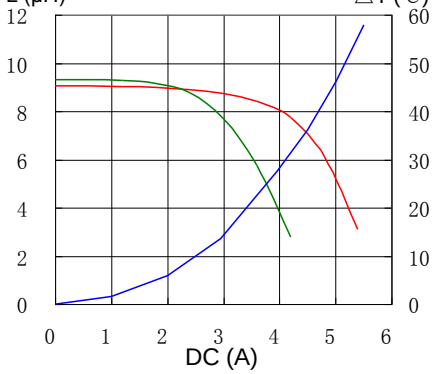
6. RCH895NP-6R5M



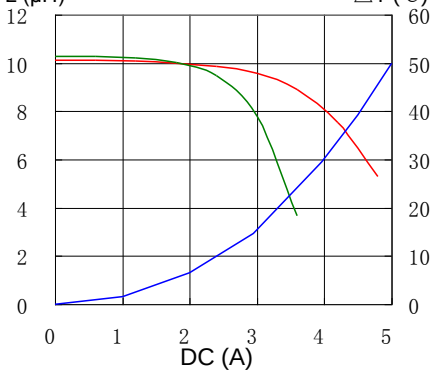
7. RCH895NP-7R7M



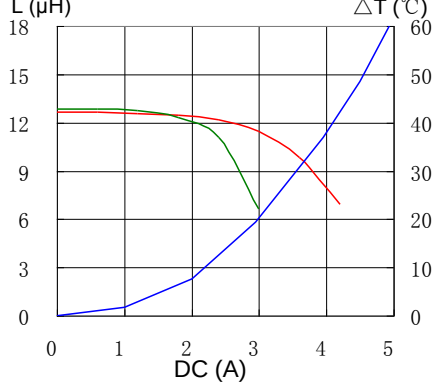
8. RCH895NP-9R2M



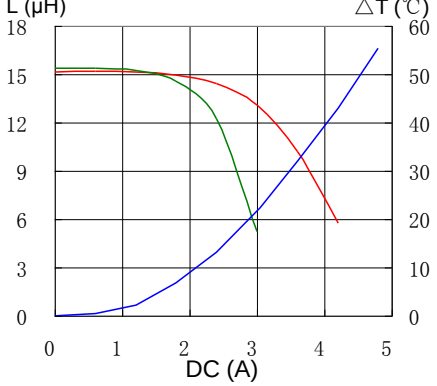
9. RCH895NP-100M



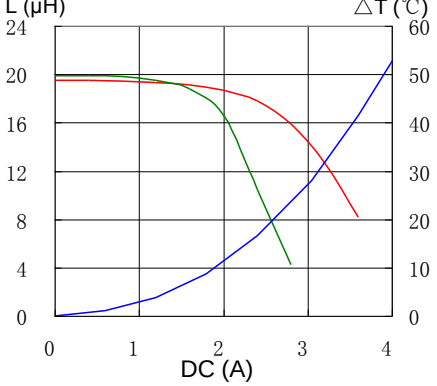
10. RCH895NP-120M



11. RCH895NP-150K



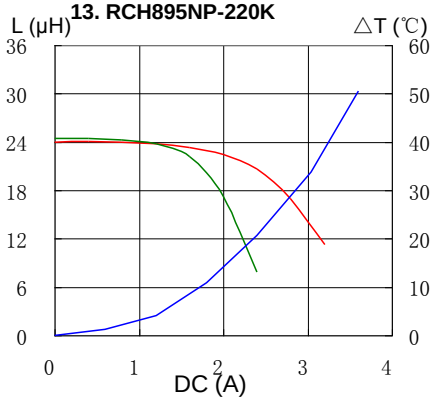
12. RCH895NP-180K



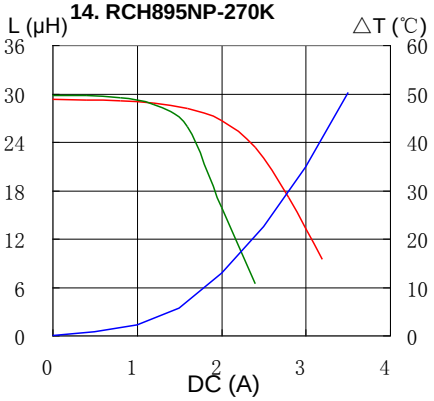
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

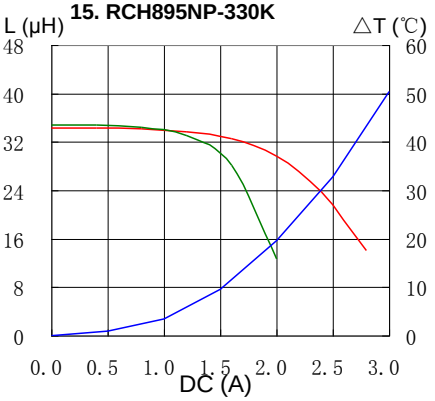
13. RCH895NP-220K



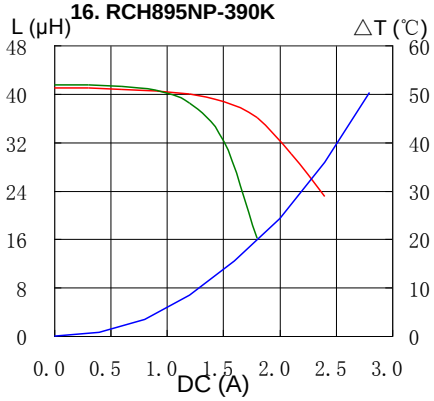
14. RCH895NP-270K



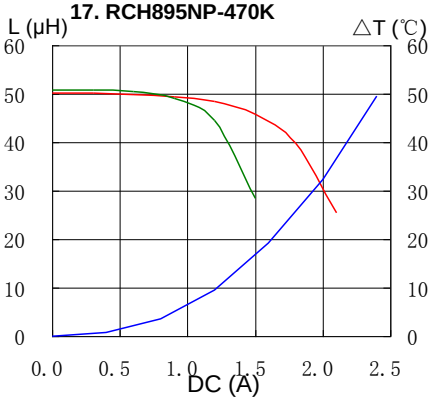
15. RCH895NP-330K



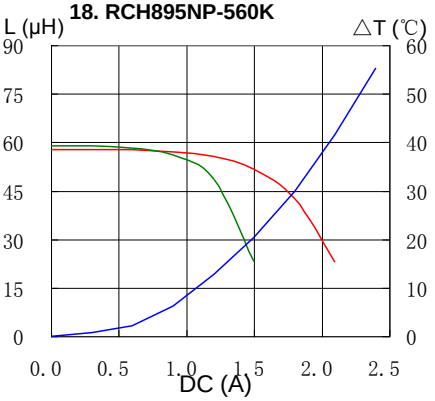
16. RCH895NP-390K



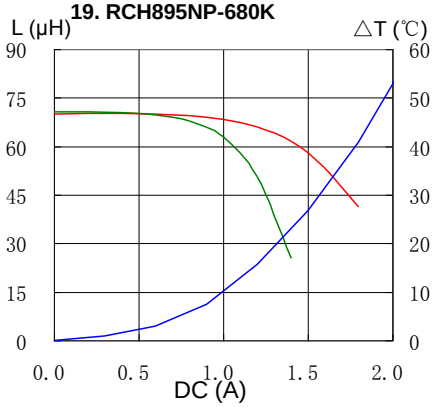
17. RCH895NP-470K



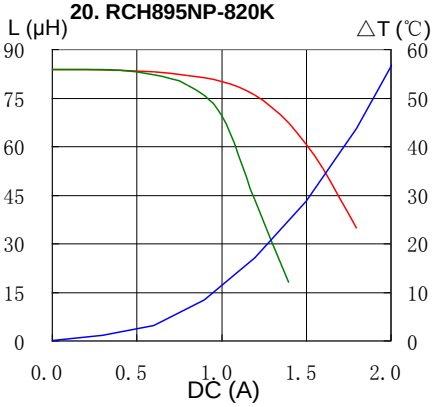
18. RCH895NP-560K



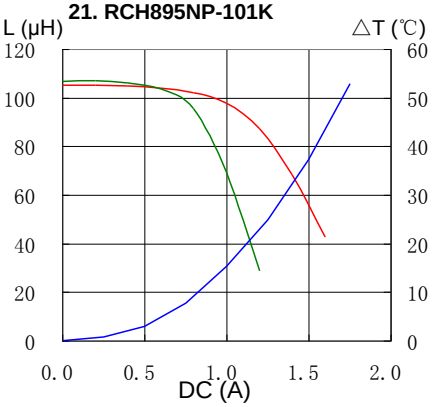
19. RCH895NP-680K



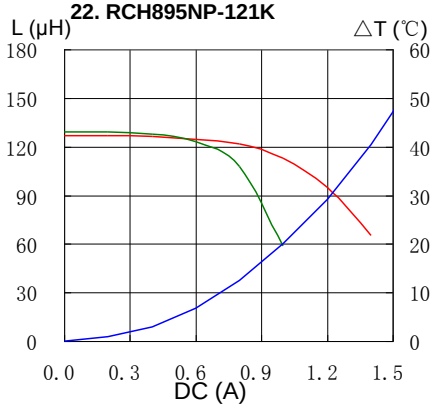
20. RCH895NP-820K



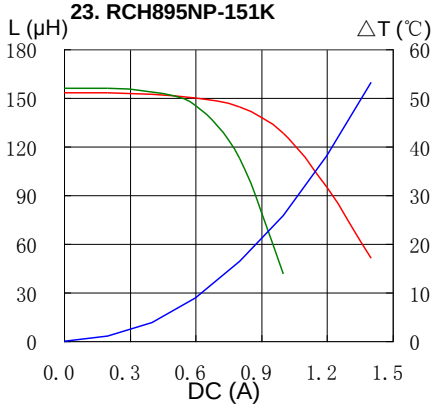
21. RCH895NP-101K



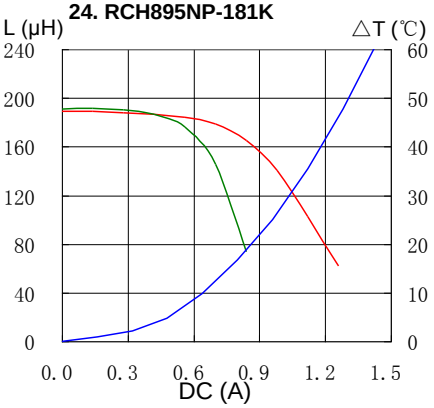
22. RCH895NP-121K



23. RCH895NP-151K



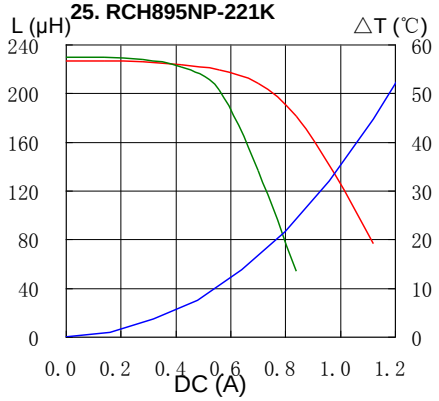
24. RCH895NP-181K



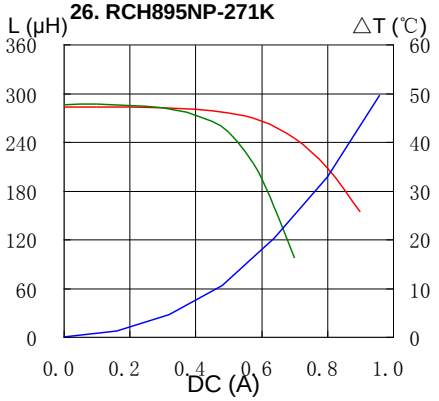
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

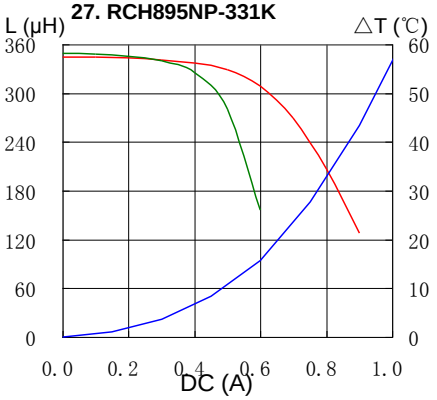
25. RCH895NP-221K



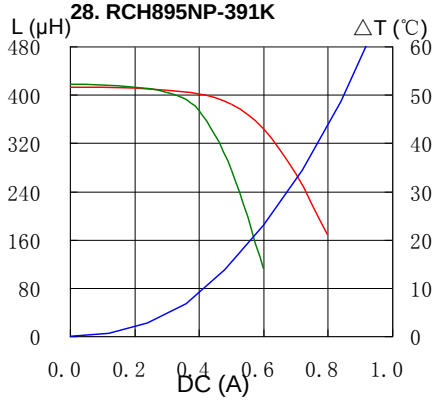
26. RCH895NP-271K



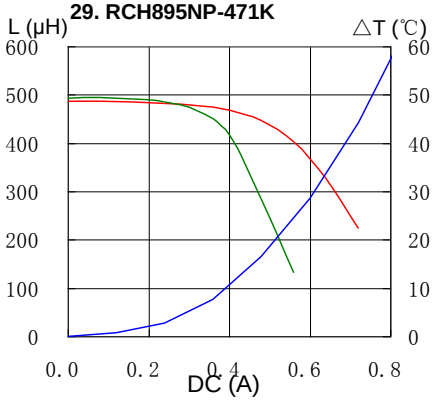
27. RCH895NP-331K



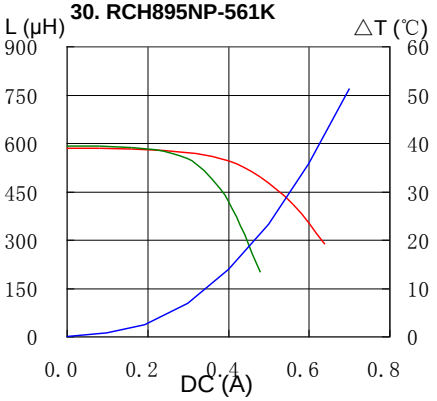
28. RCH895NP-391K



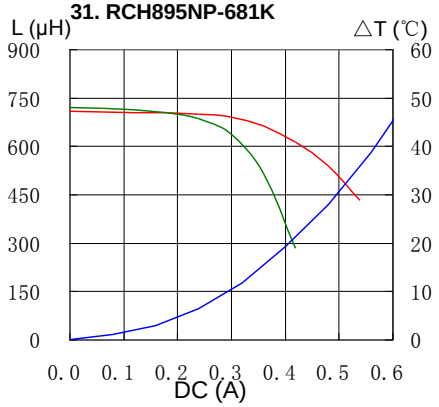
29. RCH895NP-471K



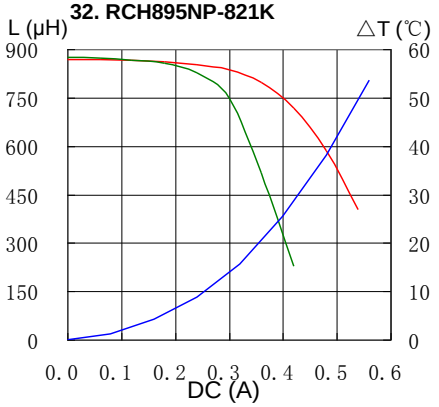
30. RCH895NP-561K



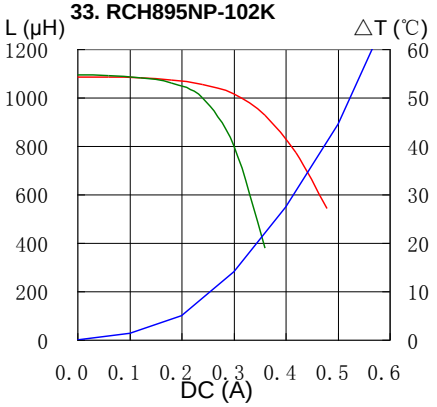
31. RCH895NP-681K



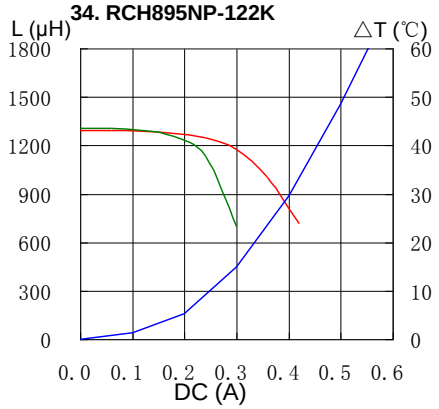
32. RCH895NP-821K



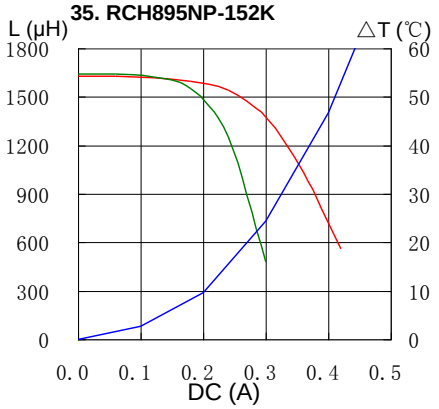
33. RCH895NP-102K



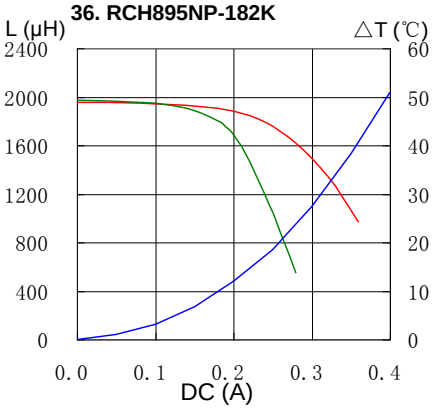
34. RCH895NP-122K



35. RCH895NP-152K



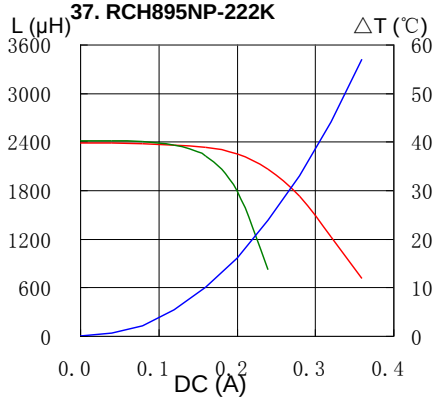
36. RCH895NP-182K



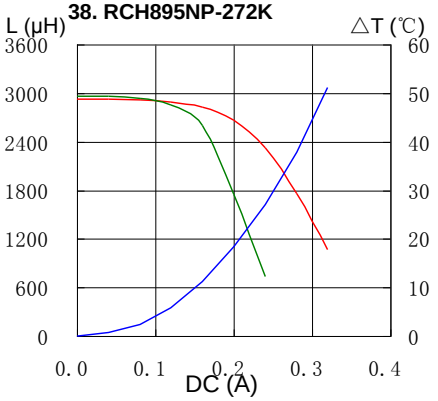
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

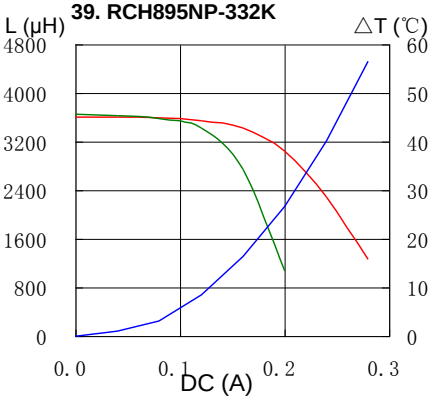
37. RCH895NP-222K



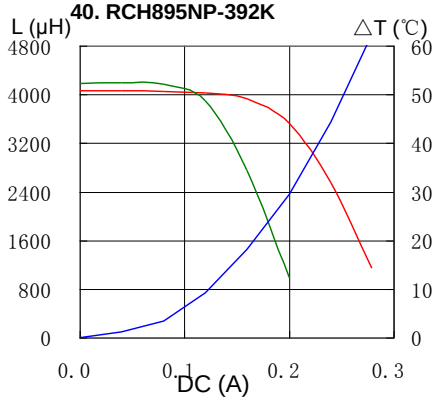
38. RCH895NP-272K



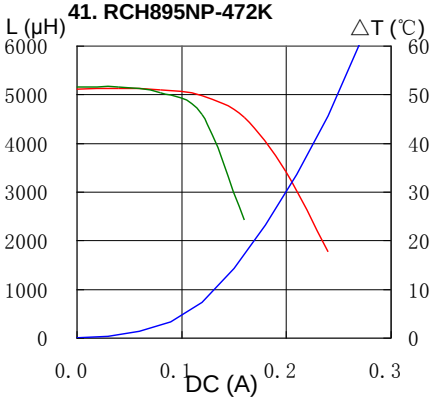
39. RCH895NP-332K



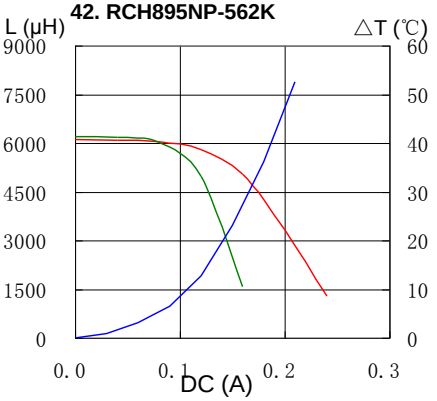
40. RCH895NP-392K



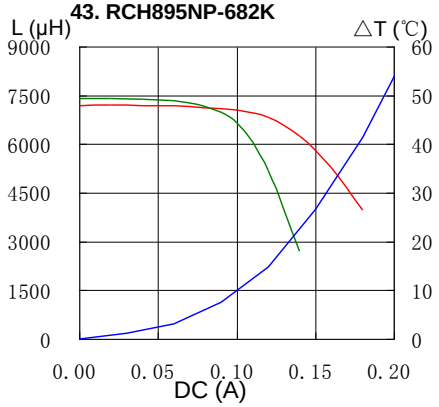
41. RCH895NP-472K



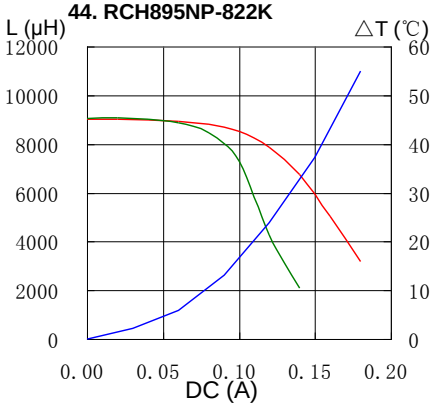
42. RCH895NP-562K



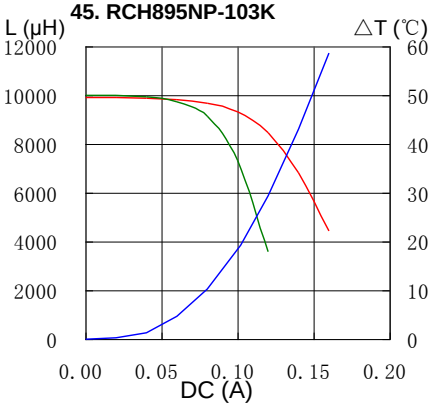
43. RCH895NP-682K



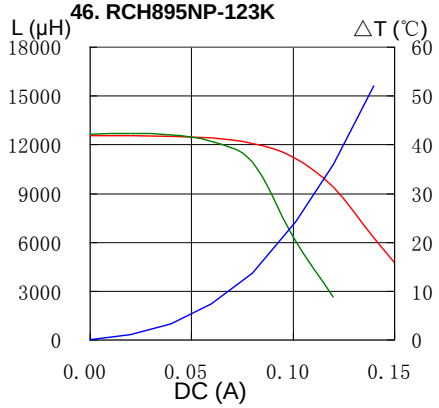
44. RCH895NP-822K



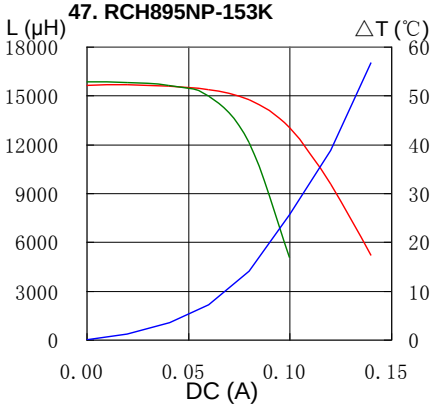
45. RCH895NP-103K



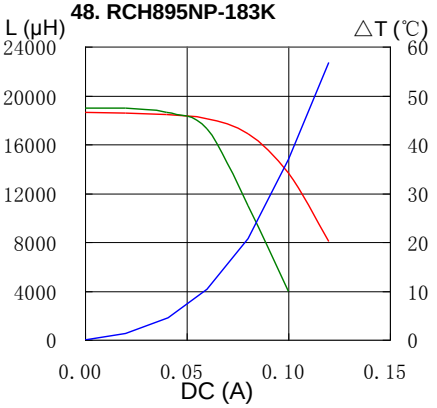
46. RCH895NP-123K



47. RCH895NP-153K



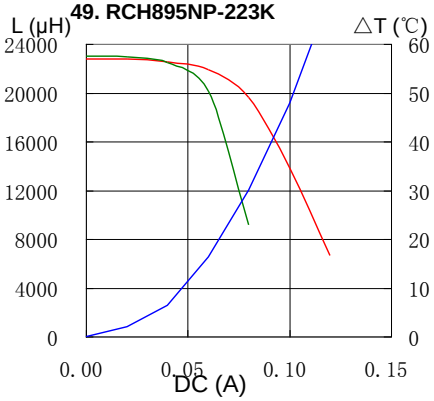
48. RCH895NP-183K



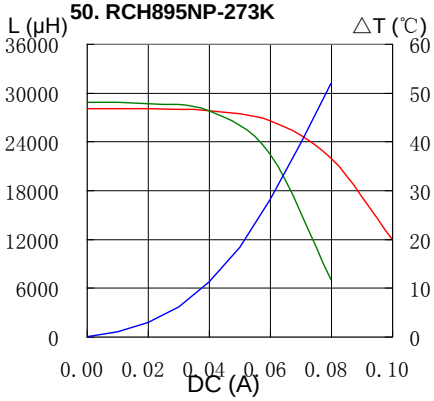
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

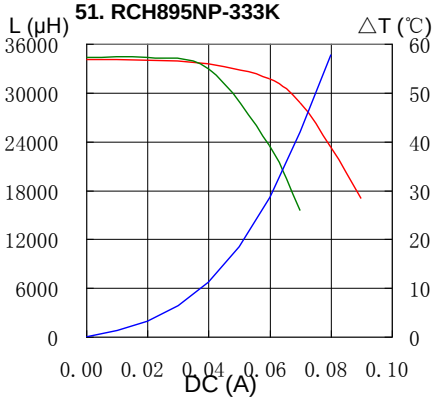
49. RCH895NP-223K



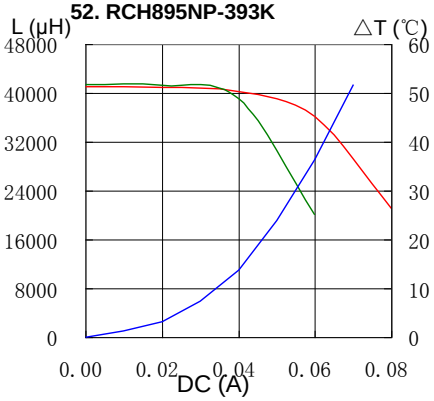
50. RCH895NP-273K



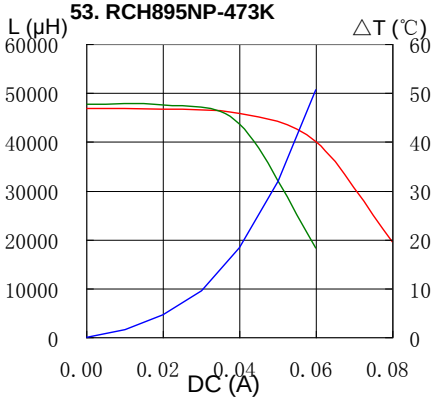
51. RCH895NP-333K



52. RCH895NP-393K



53. RCH895NP-473K



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