PIN Power Inductor
RCH-664

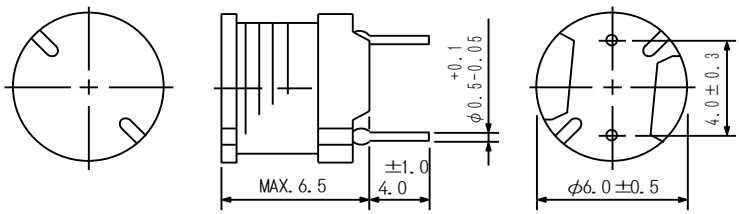
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.5 × 6.5 × 6.5mm Max.
- Product weight: 0.7 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

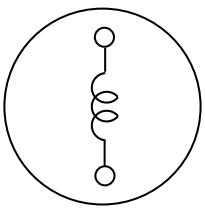
Packaging
- Box packaging.

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. (Ω) [Max.] at 20℃	Rated Current (A)※2
RCH664NP-1R0M	1R0M	1.0±20%	18.3m	4.00
RCH664NP-1R3M	1R3M	1.3±20%	20.6m	3.70
RCH664NP-1R7M	1R7M	1.7±20%	22.8m	3.52
RCH664NP-2R2M	2R2M	2.2±20%	25.5m	3.20
RCH664NP-2R7M	2R7M	2.7±20%	28.2m	3.00
RCH664NP-3R3M	3R3M	3.3±20%	30.8m	2.83
RCH664NP-3R9M	3R9M	3.9±20%	33.4m	2.63
RCH664NP-4R7M	4R7M	4.7±20%	36.4m	2.43
RCH664NP-5R5M	5R5M	5.5±20%	39.5m	2.30
RCH664NP-6R3M	6R3M	6.3±20%	43.0m	2.14
RCH664NP-7R2M	7R2M	7.2±20%	46.2m	2.09
RCH664NP-8R1M	8R1M	8.1±20%	49.8m	1.99
RCH664NP-9R1M	9R1M	9.1±20%	53.2m	1.86
RCH664NP-100M	100M	10±20%	56.6m	1.75
RCH664NP-110L	110L	11±15%	59.6m	1.64
RCH664NP-120L	120L	12±15%	63.0m	1.52
RCH664NP-130L	130L	13±15%	66.7m	1.48
RCH664NP-140L	140L	14±15%	70.1m	1.44
RCH664NP-150L	150L	15±15%	74.4m	1.40
RCH664NP-160L	160L	16±15%	78.8m	1.33
RCH664NP-180L	180L	18±15%	83.9m	1.30
RCH664NP-220K	220K	22±10%	0.11	1.27
RCH664NP-270K	270K	27±10%	0.14	1.14
RCH664NP-330K	330K	33±10%	0.17	1.03
RCH664NP-390K	390K	39±10%	0.19	950m
RCH664NP-470K	470K	47±10%	0.23	870m
RCH664NP-560K	560K	56±10%	0.26	800m
RCH664NP-680K	680K	68±10%	0.28	720m
RCH664NP-820K	820K	82±10%	0.39	660m
RCH664NP-101K	101K	100±10%	0.43	590m
RCH664NP-121K	121K	120±10%	0.54	540m
RCH664NP-151K	151K	150±10%	0.64	480m
RCH664NP-181K	181K	180±10%	0.74	440m
RCH664NP-221K	221K	220±10%	0.96	400m
RCH664NP-271K	271K	270±10%	1.12	360m
RCH664NP-331K	331K	330±10%	1.48	330m
RCH664NP-391K	391K	390±10%	1.66	300m
RCH664NP-471K	471K	470±10%	1.91	270m
RCH664NP-561K	561K	560±10%	2.31	250m
RCH664NP-681K	681K	680±10%	2.67	230m
RCH664NP-821K	821K	820±10%	3.10	210m
RCH664NP-102K	102K	1000±10%	4.45	190m

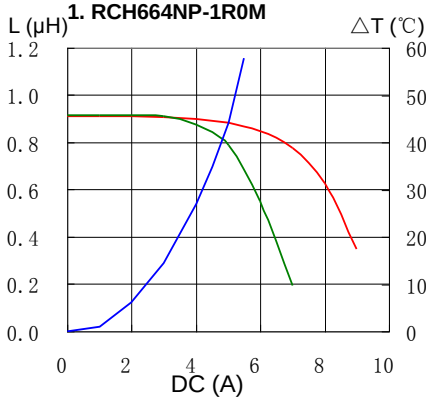
※1: Inductance measuring condition: 1.0μH ～ 10μH at 7.96 MHz
11μH ～ 82μH at 2.52 MHz
100μH ～ 1.0mH at 1 kHz

※2: The rated current indicates the lower value of current when the inductance is 10% lower than its initial value at D.C. superposition or the temperature of coil rises 40℃ with D.C. current passing. (Ta＝20℃)

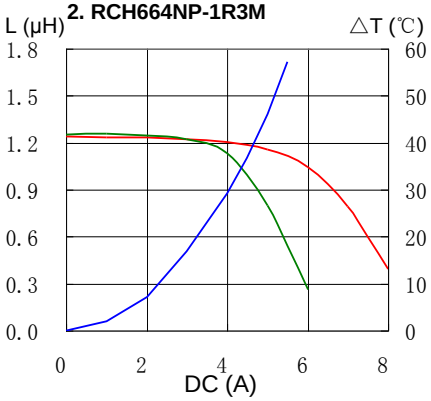
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

1. RCH664NP-1R0M



2. RCH664NP-1R3M



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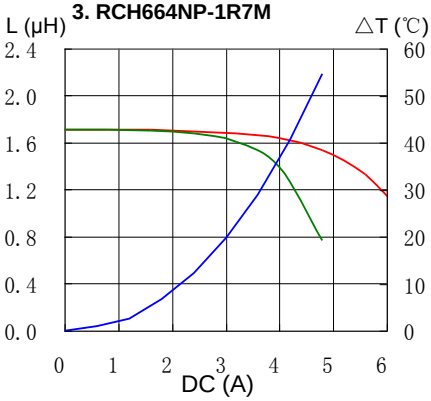

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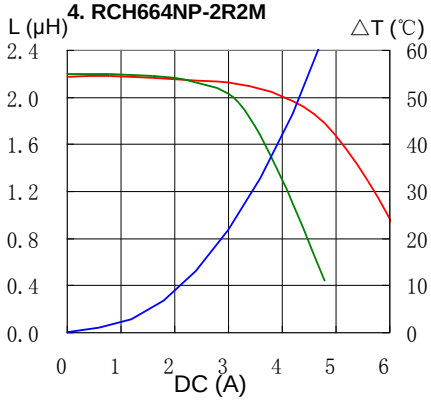
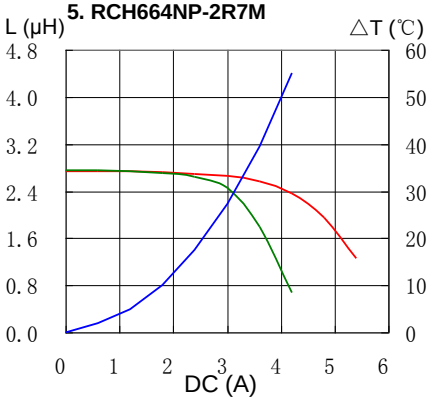
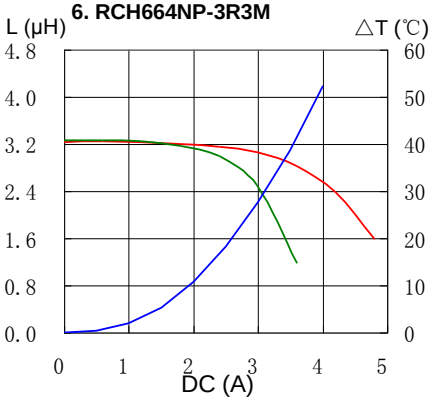


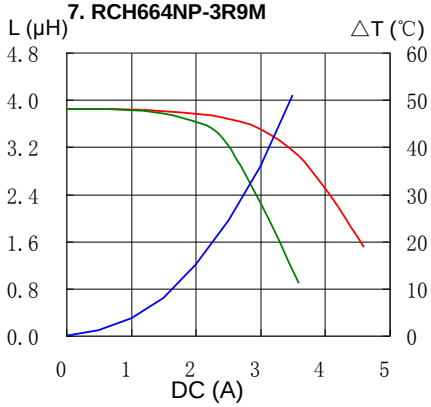
5. RCH664NP-2R7M



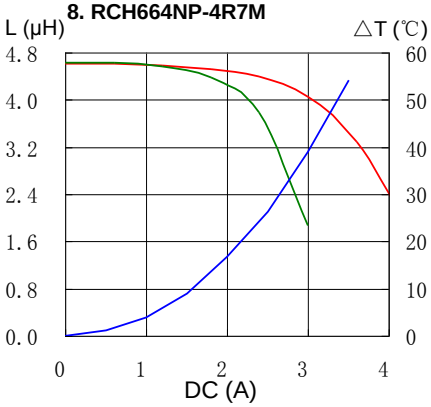
6. RCH664NP-3R3M



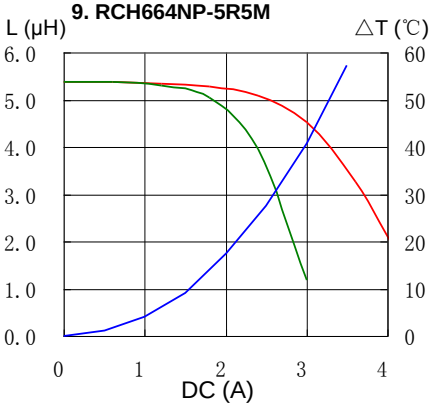
7. RCH664NP-3R9M



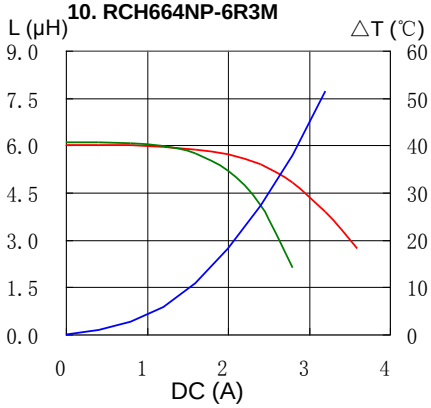
8. RCH664NP-4R7M



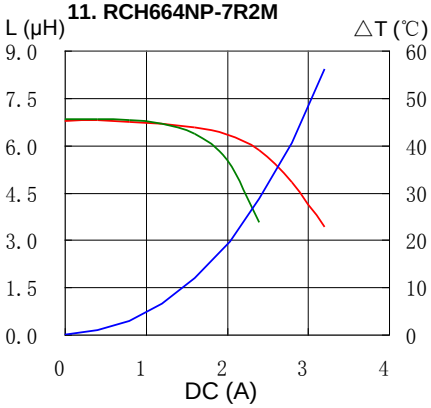
9. RCH664NP-5R5M



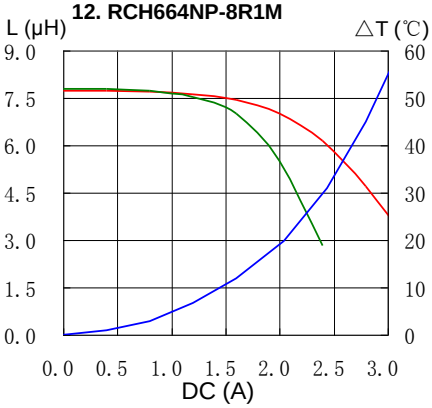
10. RCH664NP-6R3M



11. RCH664NP-7R2M



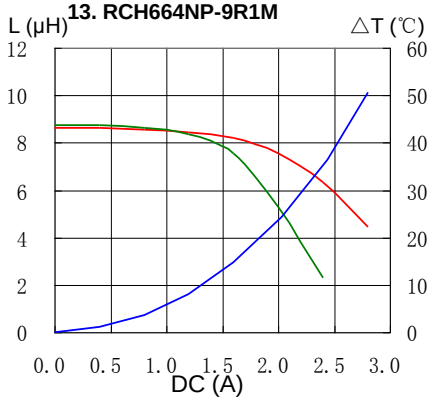
12. RCH664NP-8R1M



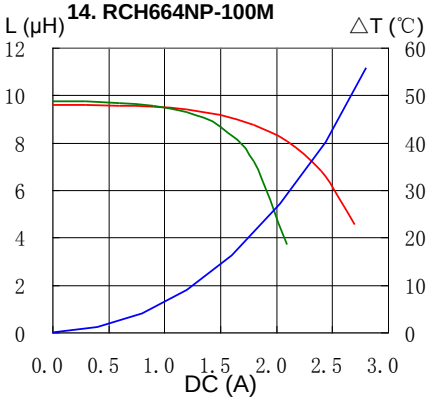
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

13. RCH664NP-9R1M



14. RCH664NP-100M



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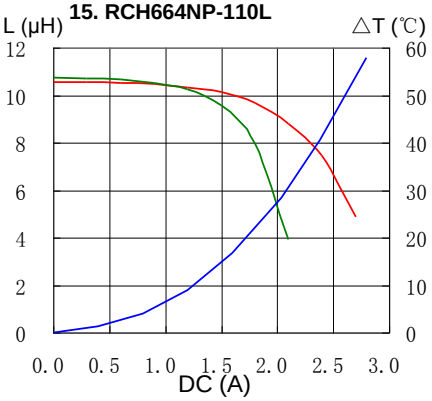

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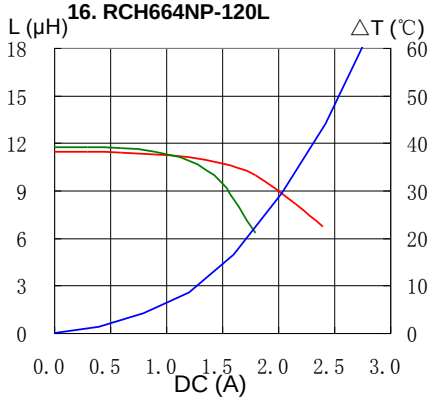

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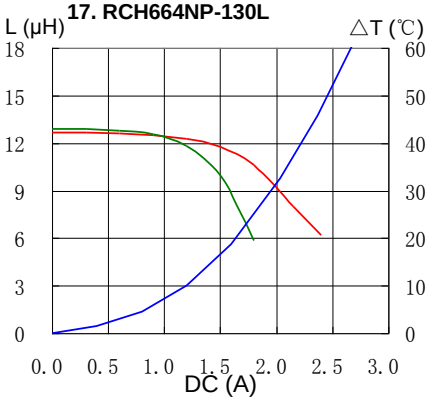
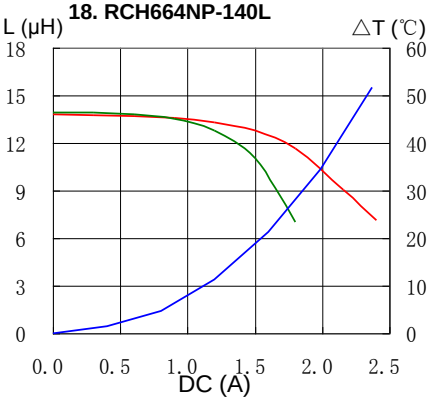
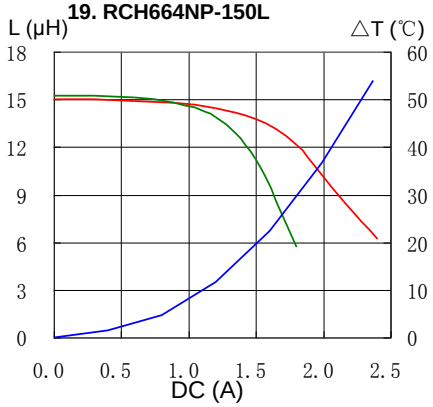


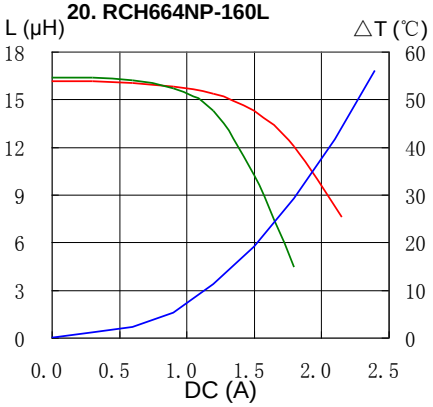
18. RCH664NP-140L



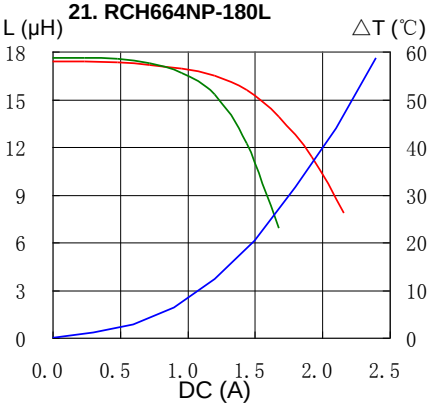
19. RCH664NP-150L



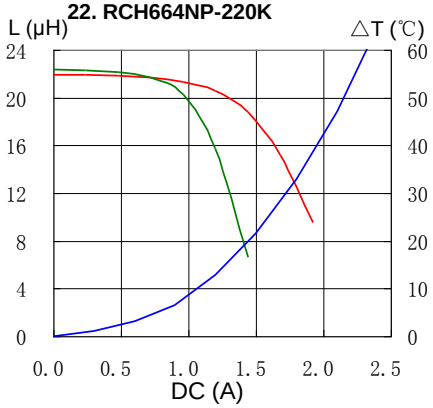
20. RCH664NP-160L



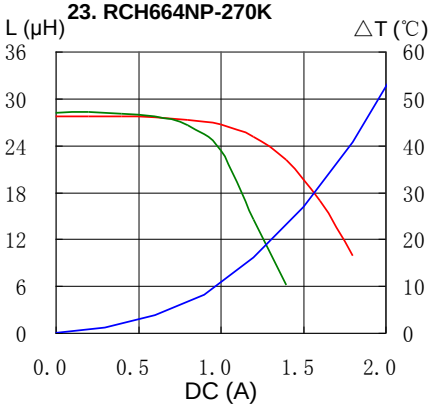
21. RCH664NP-180L



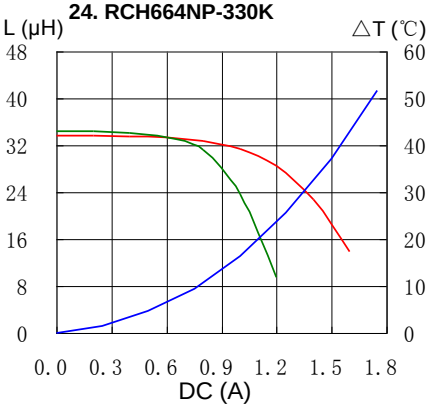
22. RCH664NP-220K



23. RCH664NP-270K



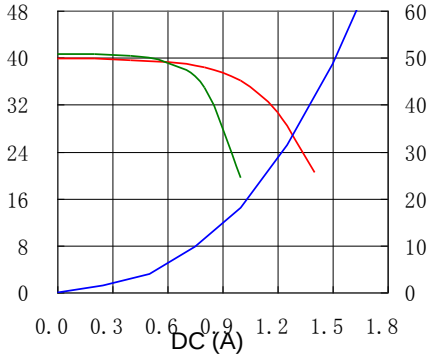
24. RCH664NP-330K



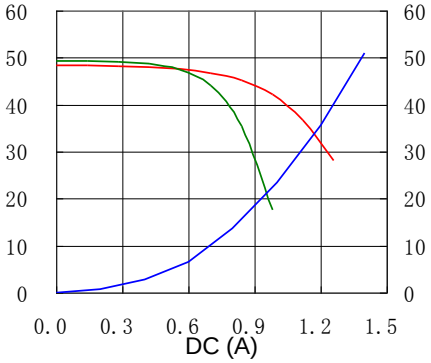
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

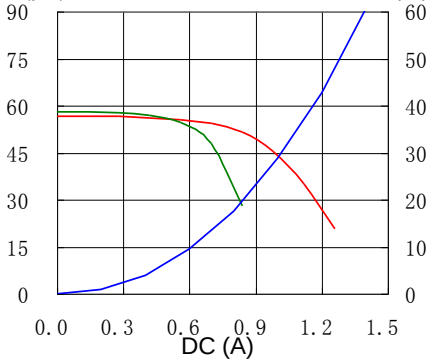
25. RCH664NP-390K



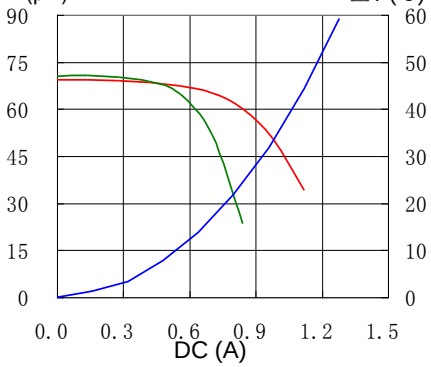
26. RCH664NP-470K



27. RCH664NP-560K



28. RCH664NP-680K



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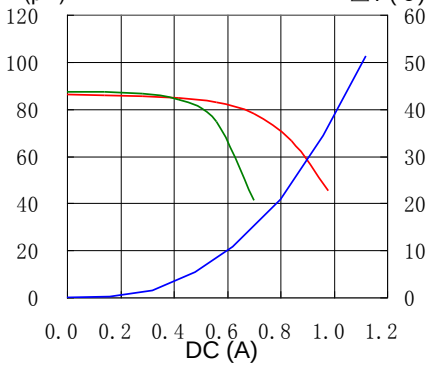
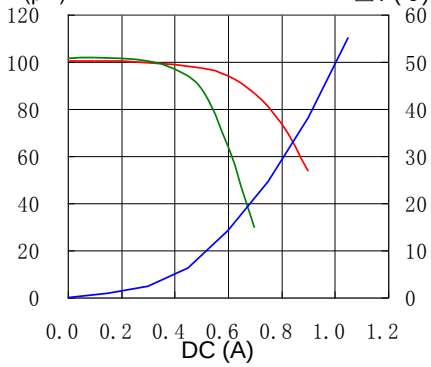
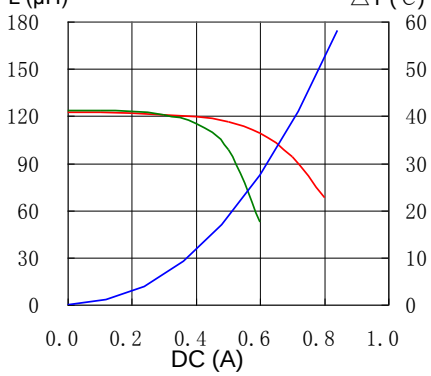


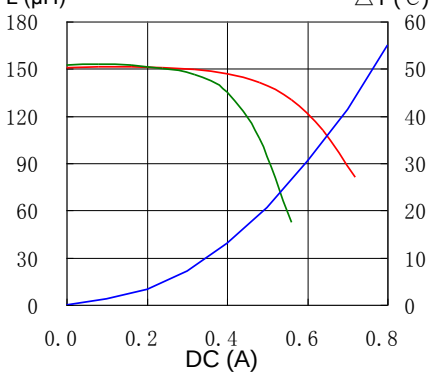
30. RCH664NP-101K



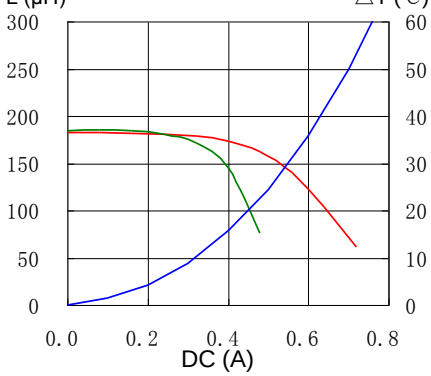
31. RCH664NP-121K



32. RCH664NP-151K



33. RCH664NP-181K



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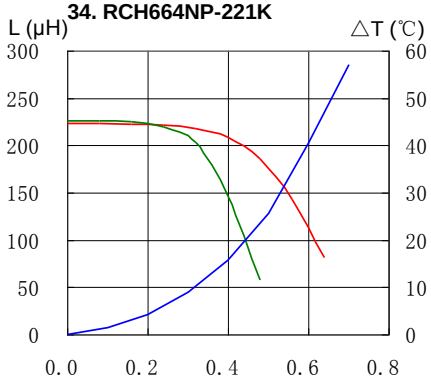

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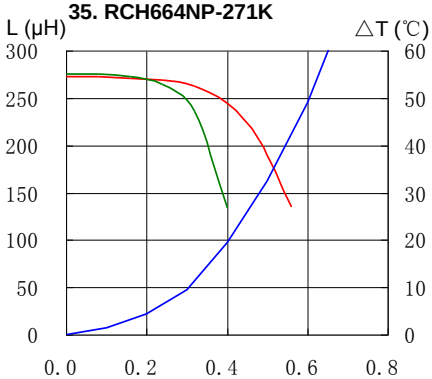
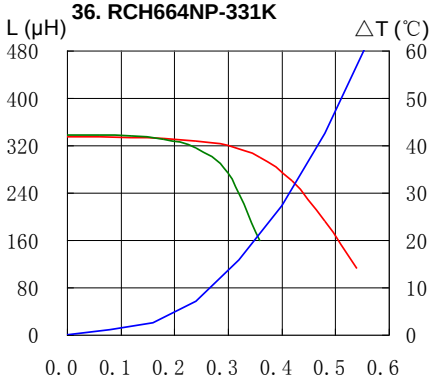


36. RCH664NP-331K

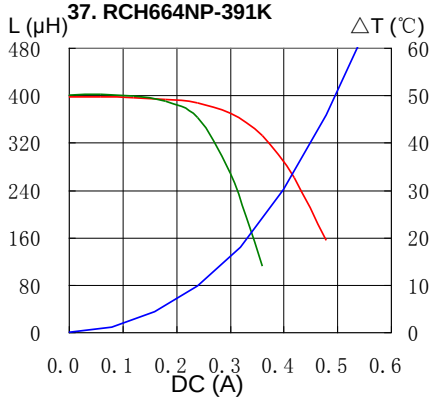


PIN Power Inductor
RCH-664

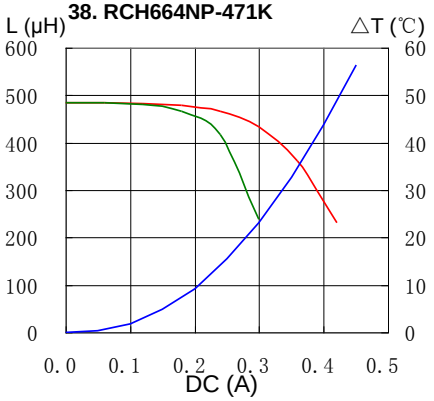
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

37. RCH664NP-391K



38. RCH664NP-471K



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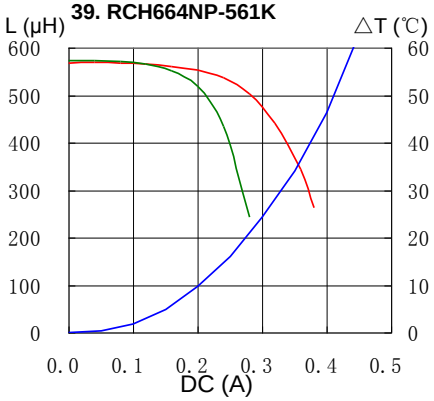
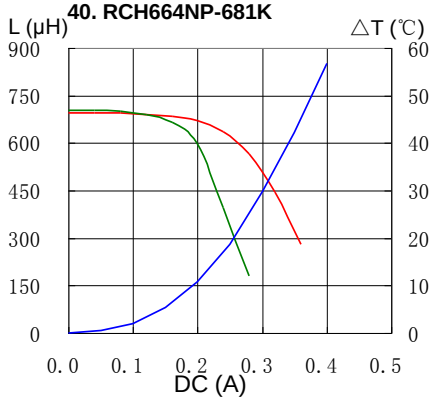
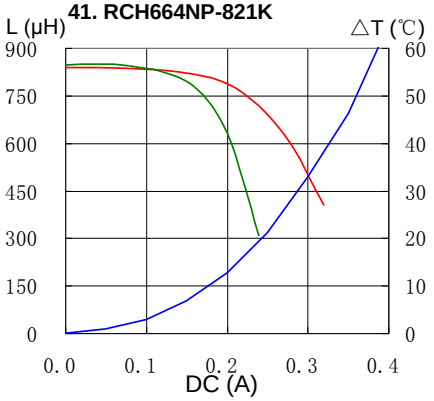


40. RCH664NP-681K



41. RCH664NP-821K



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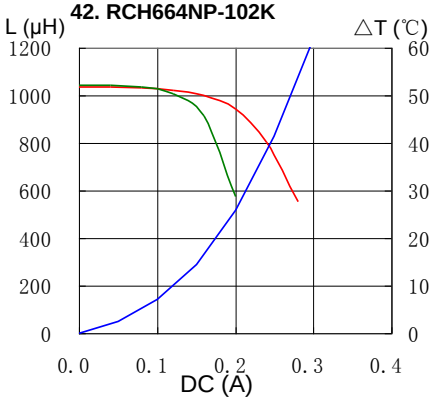

Please refer to the sales offices on our website - http://www.sumida.com

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