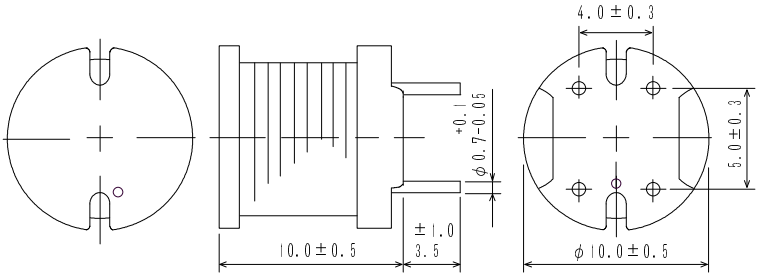
PIN Power Inductor
RCH-110

RoHS

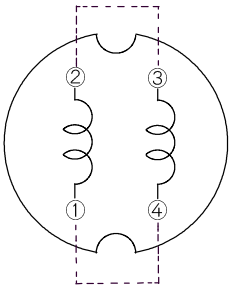
Halogen Free

Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 3.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

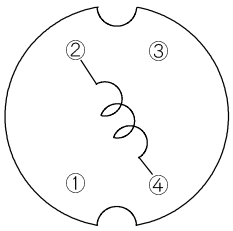
Dimension - [mm]



Schematics - [mm]



(10μH～33μH)



(39μH～1mH)

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.

Revised: 7-Jan-14

Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at20℃)	RATED CURRENT (A)※2	S.R.F. (MHz) TYP.
RCH110NP-100M	100M	10 μ H ± 20%	0.022	5.3	14
RCH110NP-120M	120M	12 μ H ± 20%	0.023	4.9	11
RCH110NP-150M	150M	15 μ H ± 20%	0.026	4.4	7.7
RCH110NP-180M	180M	18 μ H ± 20%	0.033	4.0	7.1
RCH110NP-220M	220M	22 μ H ± 20%	0.037	3.6	6.8
RCH110NP-270M	270M	27 μ H ± 20%	0.048	3.3	6.1
RCH110NP-330K	330K	33 μ H ± 10%	0.055	2.9	6.0
RCH110NP-390K	390K	39 μ H ± 10%	0.073	2.7	8.6
RCH110NP-470K	470K	47 μ H ± 10%	0.083	2.5	8.1
RCH110NP-560K	560K	56 μ H ± 10%	0.092	2.3	7.6
RCH110NP-680K	680K	68 μ H ± 10%	0.12	2.1	6.3
RCH110NP-820K	820K	82 μ H ± 10%	0.14	1.9	6.0
RCH110NP-101K	101K	100 μ H ± 10%	0.16	1.7	5.7
RCH110NP-121K	121K	120 μ H ± 10%	0.20	1.5	4.8
RCH110NP-151K	151K	150 μ H ± 10%	0.23	1.4	4.2
RCH110NP-181K	181K	180 μ H ± 10%	0.31	1.3	3.9
RCH110NP-221K	221K	220 μ H ± 10%	0.34	1.1	3.8
RCH110NP-271K	271K	270 μ H ± 10%	0.40	1.0	3.4
RCH110NP-331K	331K	330 μ H ± 10%	0.52	0.93	2.8
RCH110NP-391K	391K	390 μ H ± 10%	0.65	0.86	2.7
RCH110NP-471K	471K	470 μ H ± 10%	0.71	0.78	2.5
RCH110NP-561K	561K	560 μ H ± 10%	1.0	0.71	2.2
RCH110NP-681K	681K	680 μ H ± 10%	1.1	0.65	2.1
RCH110NP-821K	821K	820 μ H ± 10%	1.3	0.59	2.0
RCH110NP-102K	102K	1.0 mH ± 10%	1.7	0.53	1.7

※1.Inductance measuring condition : at 1.0kHz
※2.This indicates the value of current when the inductance 10% lower than its initial value or D.C current when △T＝40℃,whichever is lower (Ta=20℃).

Revised: 7-Jan-14

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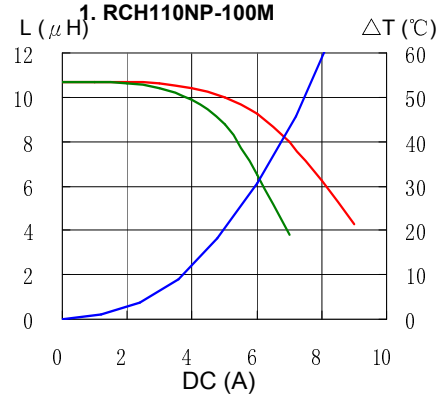
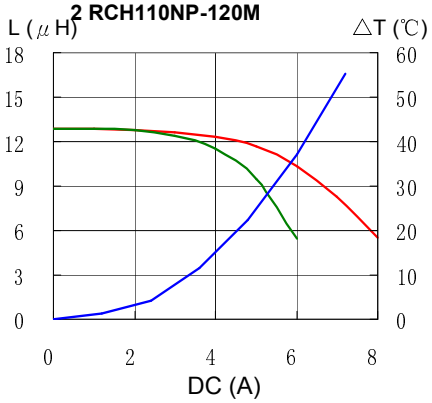
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

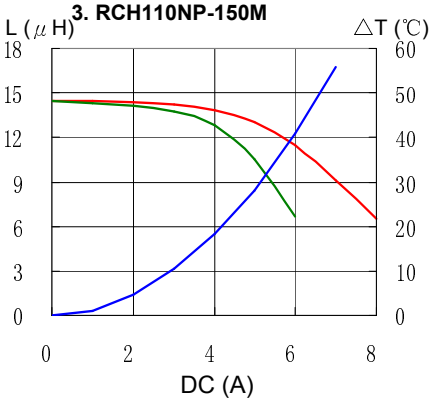
1. RCH110NP-100M



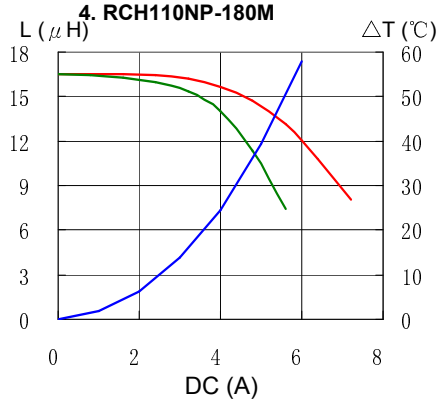
2 RCH110NP-120M



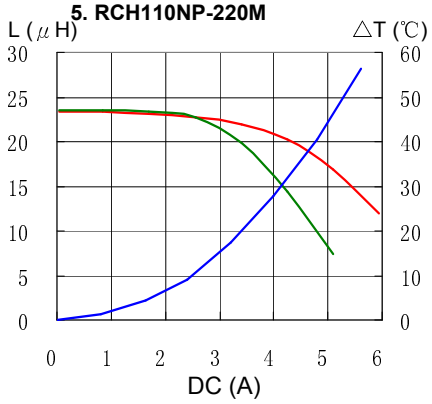
3. RCH110NP-150M



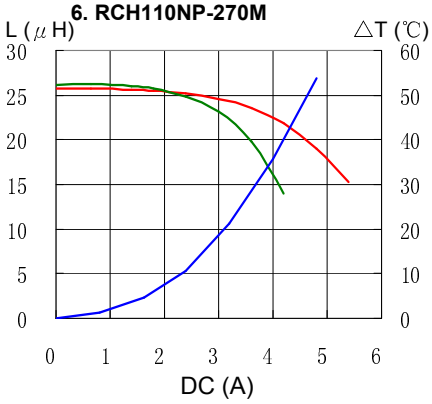
4. RCH110NP-180M



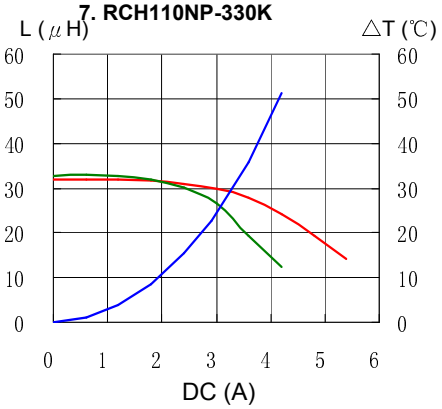
5. RCH110NP-220M



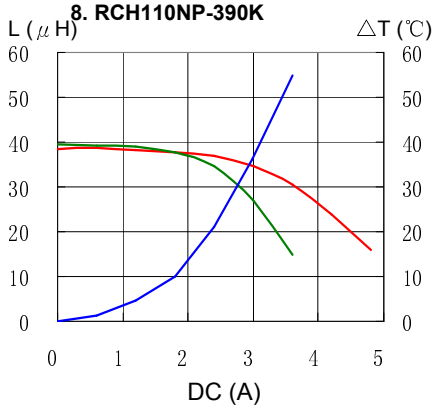
6. RCH110NP-270M



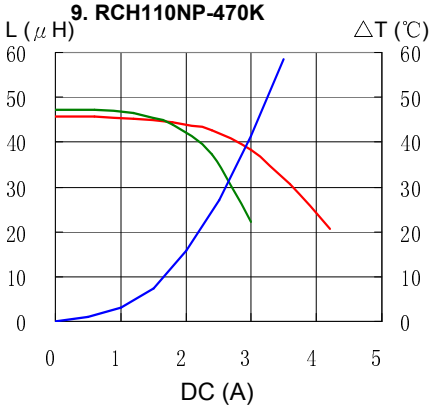
7. RCH110NP-330K



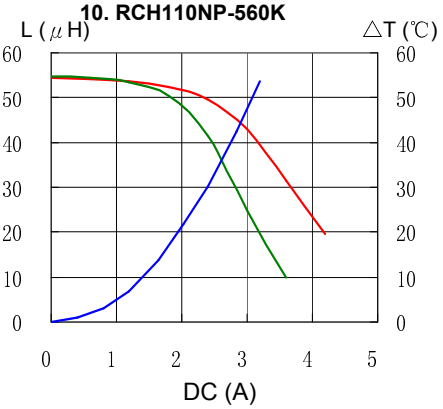
8. RCH110NP-390K



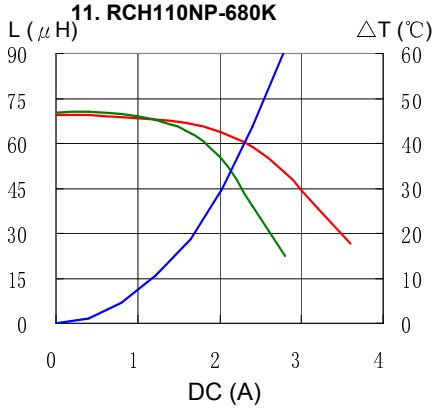
9. RCH110NP-470K



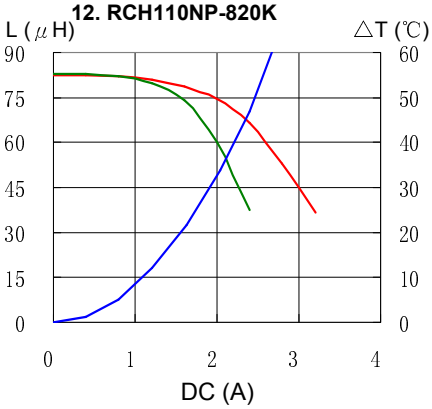
10. RCH110NP-560K



11. RCH110NP-680K



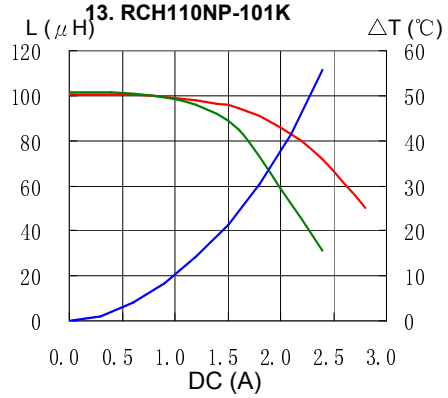
12. RCH110NP-820K



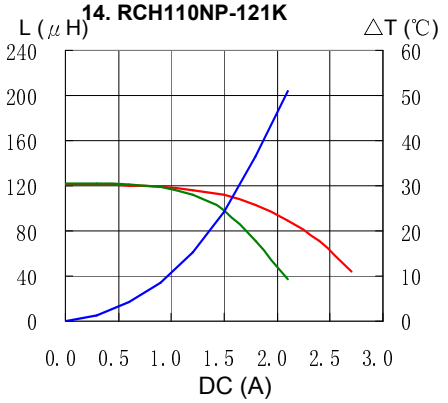
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

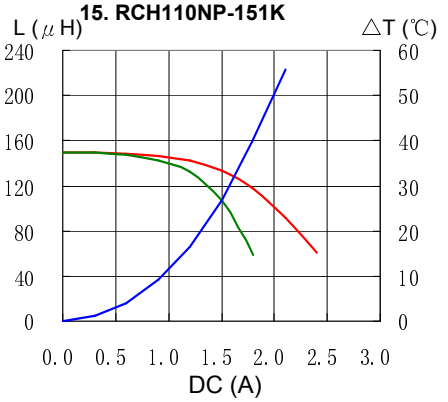
13. RCH110NP-101K



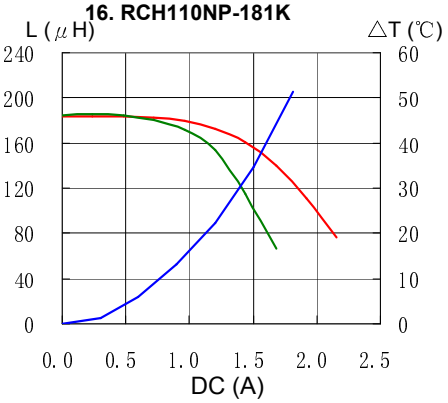
14. RCH110NP-121K



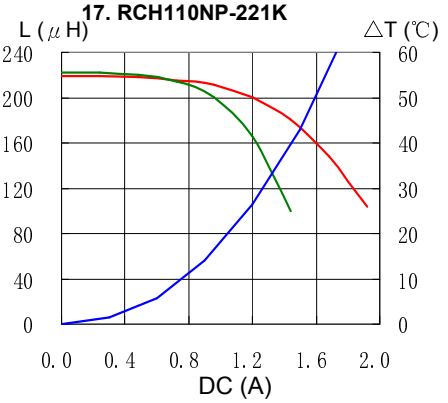
15. RCH110NP-151K



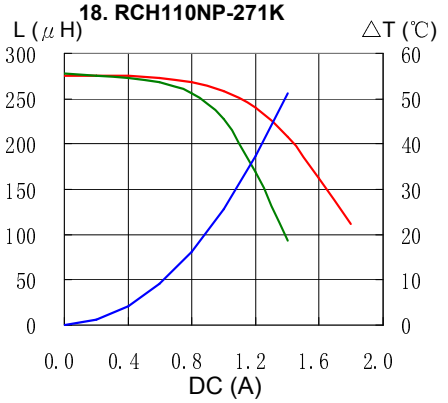
16. RCH110NP-181K



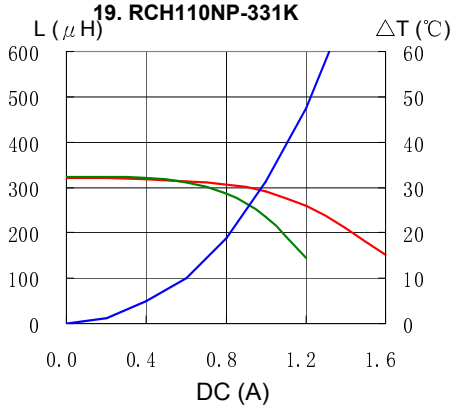
17. RCH110NP-221K



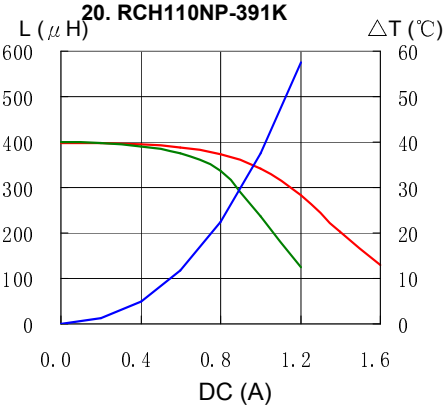
18. RCH110NP-271K



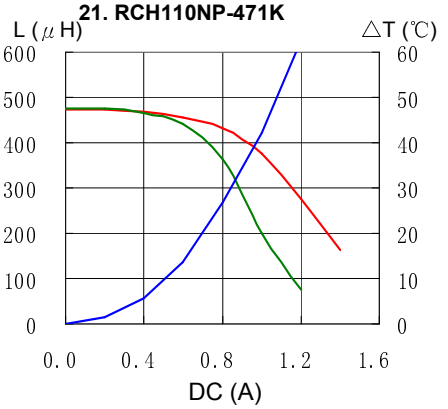
19. RCH110NP-331K



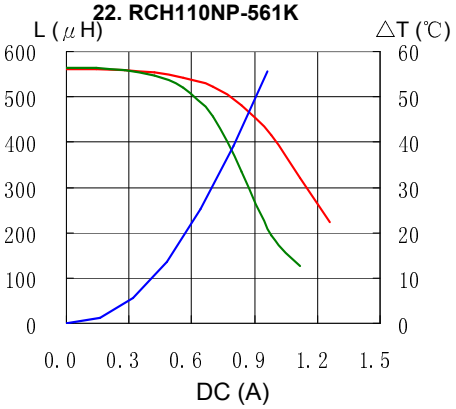
20. RCH110NP-391K



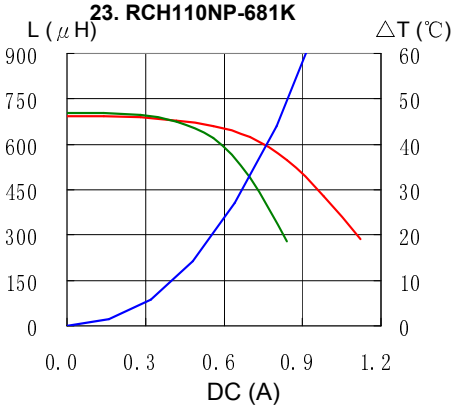
21. RCH110NP-471K



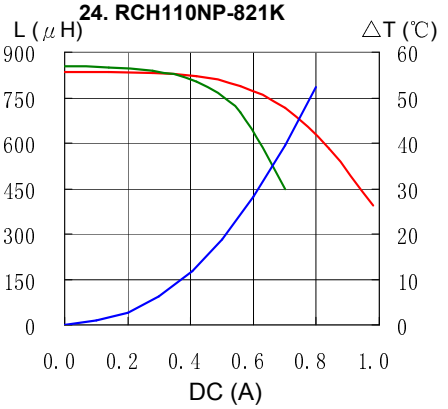
22. RCH110NP-561K



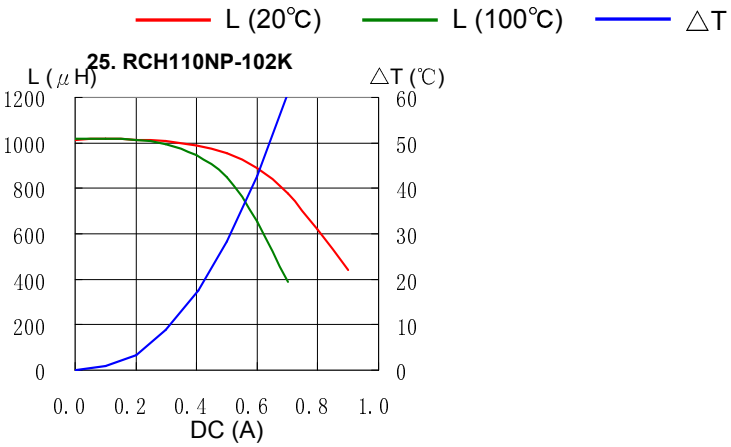
23. RCH110NP-681K



24. RCH110NP-821K



Saturation Current & Temperature Rise Graph



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