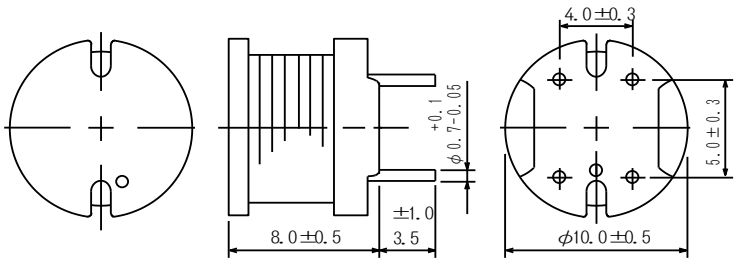
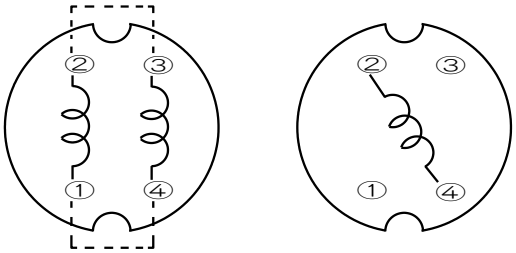
PIN Power Inductor
RCH-108

RoHS

Dimension - [mm]



Schematics - [mm] (bottom view)



(2.2μH～15μH) (18μH～1.0mH)

Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 8.5mm Max.
- Product weight: 2.4g(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.

Revised: 10-Jan-17

Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at 20℃)	RATED CURRENT (A) ※2
RCH108NP-2R2M	2R2M	2.2μH ± 20 %	8.5m	7.9
RCH108NP-2R7M	2R7M	2.7μH ± 20 %	9.6m	7.2
RCH108NP-3R7M	3R7M	3.7μH ± 20 %	10.9	6.3
RCH108NP-4R7M	4R7M	4.7μH ± 20 %	11.7m	5.7
RCH108NP-6R2M	6R2M	6.2μH ± 20 %	15.3m	5.3
RCH108NP-8R2M	8R2M	8.2μH ± 20 %	17.0m	5.0
RCH108NP-100M	100M	10μH ± 20 %	0.027	4.5
RCH108NP-120M	120M	12μH ± 20 %	0.031	4.1
RCH108NP-150M	150M	15μH ± 20 %	0.036	3.7
RCH108NP-180M	180M	18μH ± 20 %	0.049	3.4
RCH108NP-220M	220M	22μH ± 20 %	0.055	3.1
RCH108NP-270M	270M	27μH ± 20 %	0.062	2.8
RCH108NP-330K	330K	33μH ± 10 %	0.079	2.5
RCH108NP-390K	390K	39μH ± 10 %	0.087	2.3
RCH108NP-470K	470K	47μH ± 10 %	0.099	2.1
RCH108NP-560K	560K	56μH ± 10 %	0.13	1.9
RCH108NP-680K	680K	68μH ± 10 %	0.14	1.7
RCH108NP-820K	820K	82μH ± 10 %	0.16	1.6
RCH108NP-101K	101K	100μH ± 10 %	0.21	1.4
RCH108NP-121K	121K	120μH ± 10 %	0.24	1.3
RCH108NP-151K	151K	150μH ± 10 %	0.32	1.2
RCH108NP-181K	181K	180μH ± 10 %	0.35	1.1
RCH108NP-221K	221K	220μH ± 10 %	0.45	0.96
RCH108NP-271K	271K	270μH ± 10 %	0.61	0.87
RCH108NP-331K	331K	330μH ± 10 %	0.69	0.79
RCH108NP-391K	391K	390μH ± 10 %	0.78	0.72
RCH108NP-471K	471K	470μH ± 10 %	1.0	0.66
RCH108NP-561K	561K	560μH ± 10 %	1.2	0.60
RCH108NP-681K	681K	680μH ± 10 %	1.4	0.55
RCH108NP-821K	821K	820μH ± 10 %	1.8	0.50
RCH108NP-102K	102K	1.0mH ± 10 %	2.1	0.45

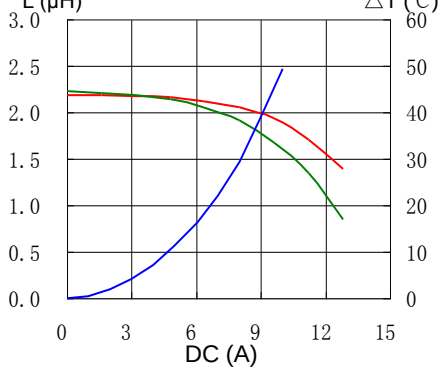
※1: Inductance measuring condition: 2.2μH～8.2μH at 7.96MHz
10μH～1.0mH at 1kHz

※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℃)

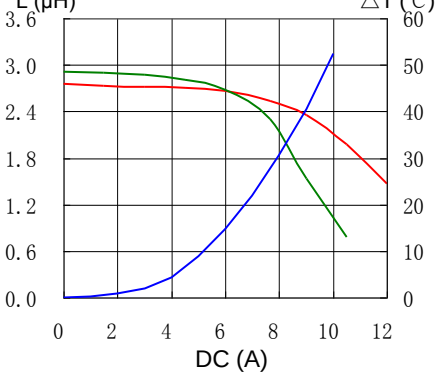
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

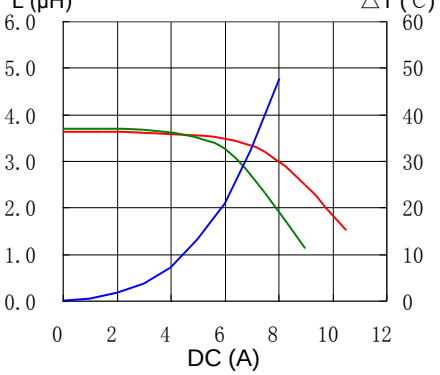
1. RCH108NP-2R2M



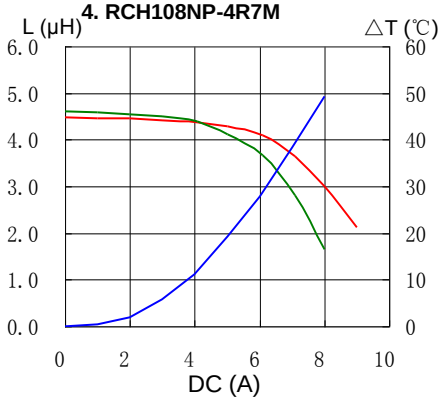
2. RCH108NP-2R7M



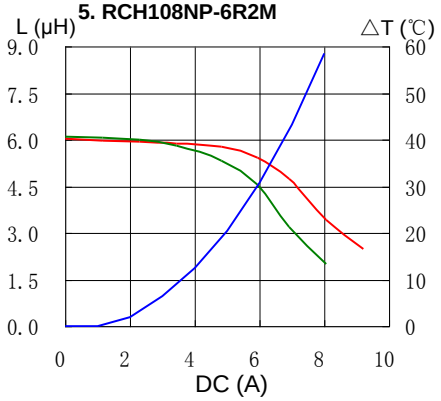
3. RCH108NP-3R7M



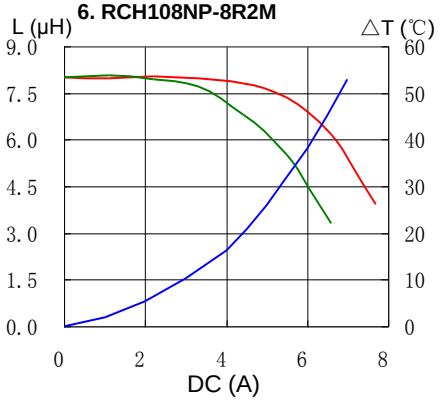
4. RCH108NP-4R7M



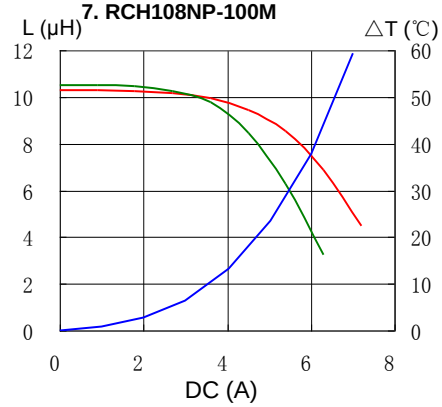
5. RCH108NP-6R2M



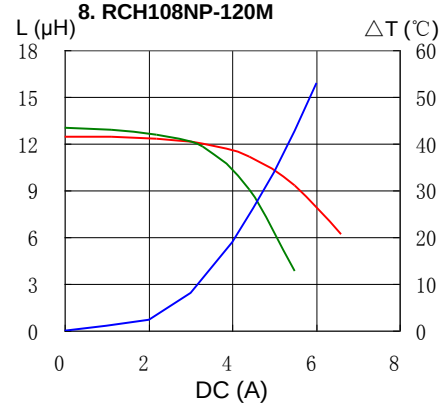
6. RCH108NP-8R2M



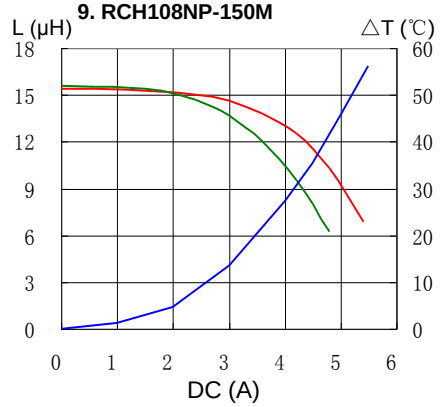
7. RCH108NP-100M



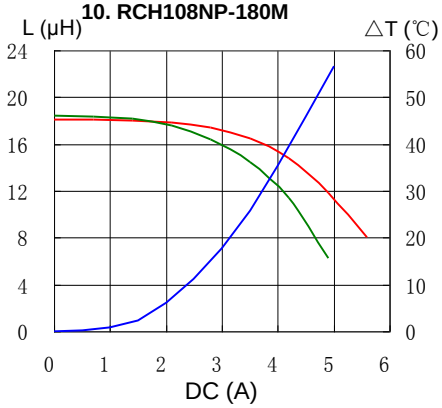
8. RCH108NP-120M



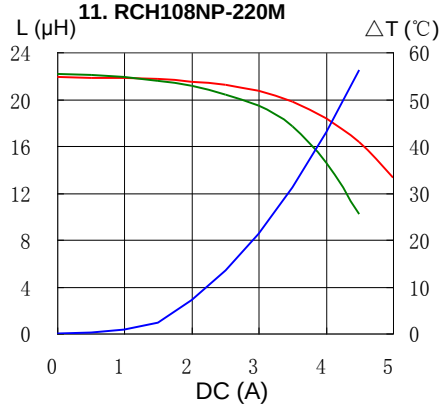
9. RCH108NP-150M



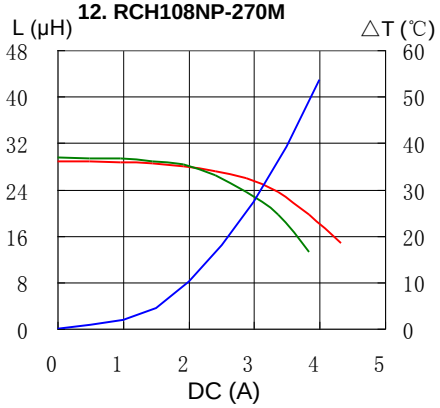
10. RCH108NP-180M



11. RCH108NP-220M



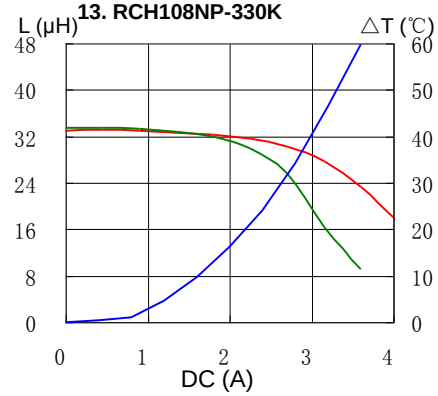
12. RCH108NP-270M



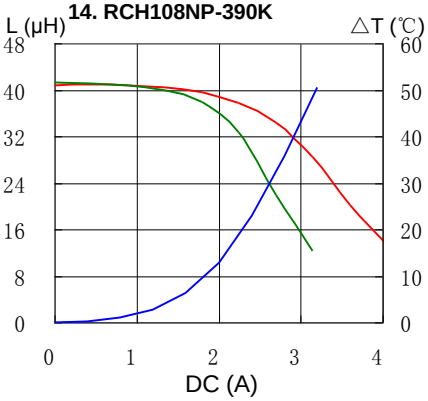
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

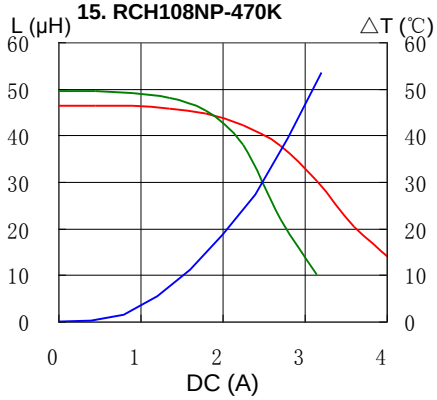
13. RCH108NP-330K



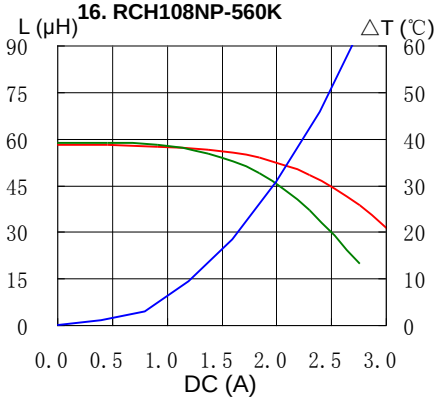
14. RCH108NP-390K



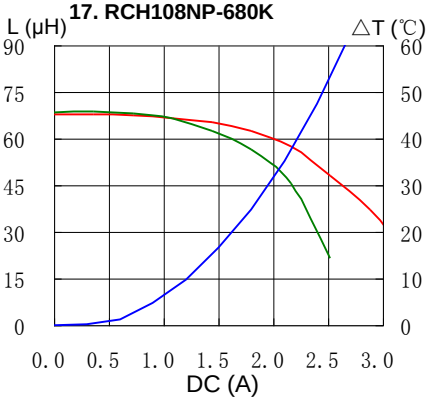
15. RCH108NP-470K



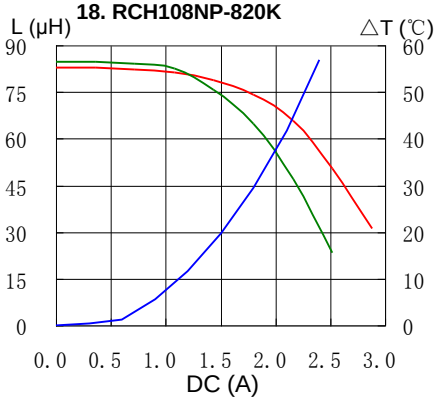
16. RCH108NP-560K



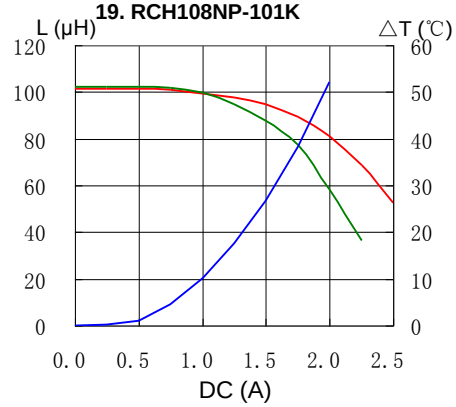
17. RCH108NP-680K



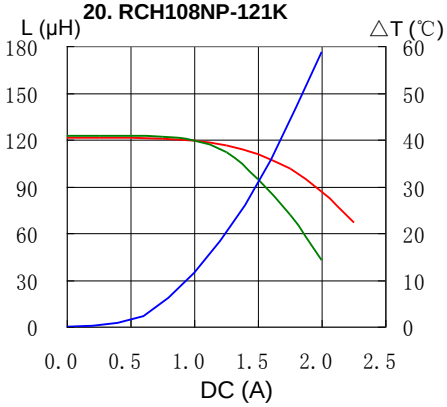
18. RCH108NP-820K



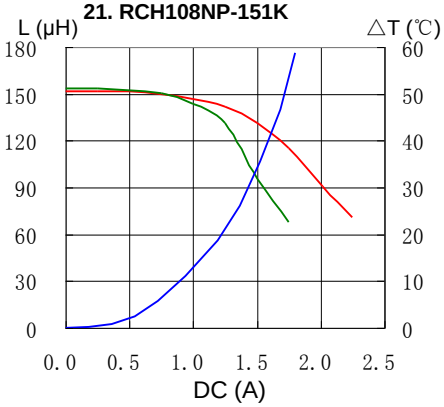
19. RCH108NP-101K



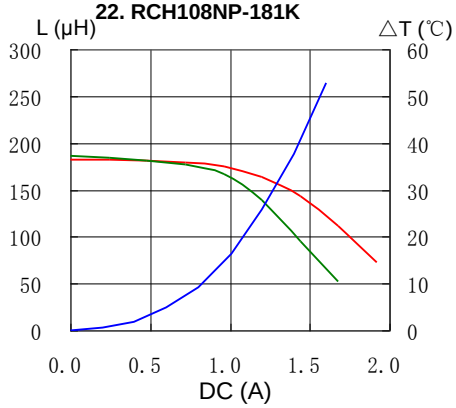
20. RCH108NP-121K



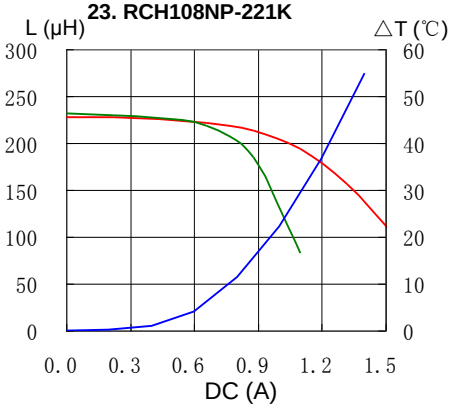
21. RCH108NP-151K



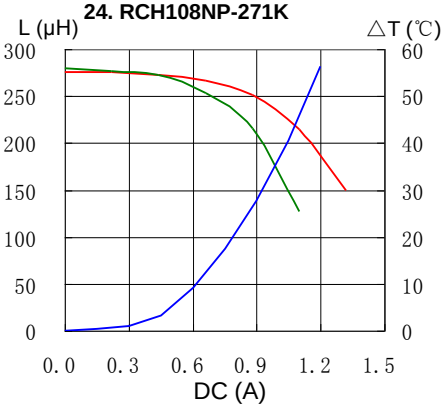
22. RCH108NP-181K



23. RCH108NP-221K



24. RCH108NP-271K

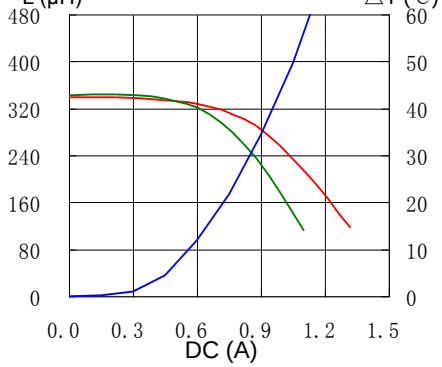


PIN Power Inductor
RCH-108

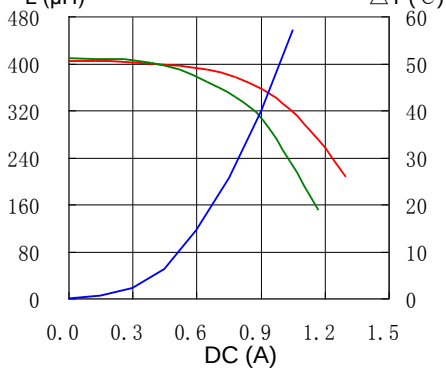
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

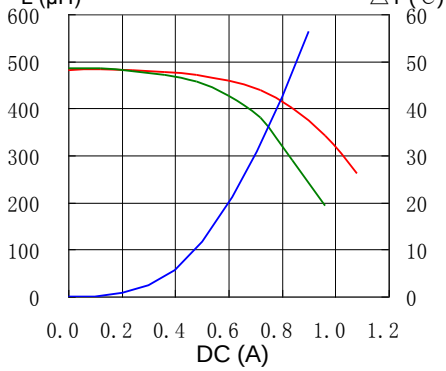
25. RCH108NP-331K



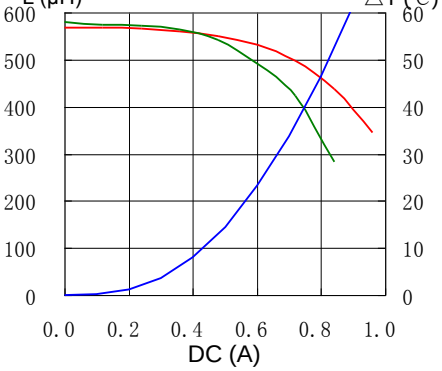
26. RCH108NP-391K



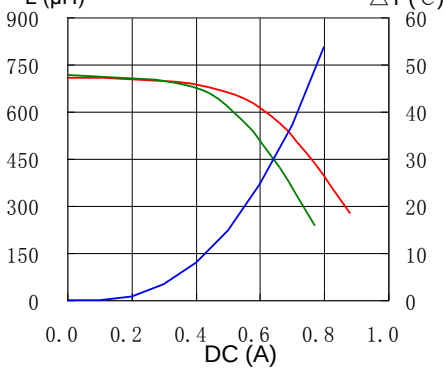
27. RCH108NP-471K



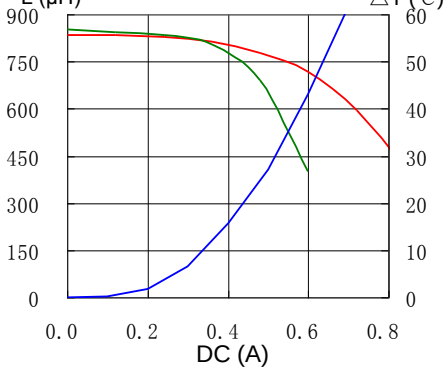
28. RCH108NP-561K



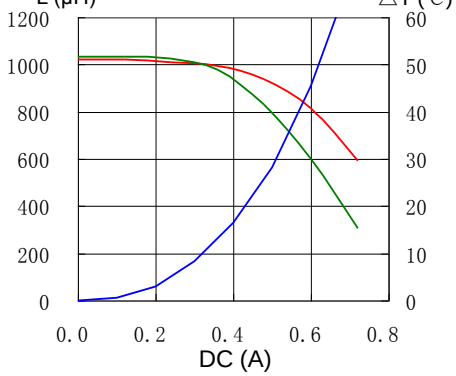
29. RCH108NP-681K



30. RCH108NP-821K



31. RCH108NP-102K



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Revised: 10-Jan-17

Mouser Electronics

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