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Sumida Corporation
RCH110BNP-100M

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sales@integrated-circuit.com

PIN Power Inductor
RCH110B

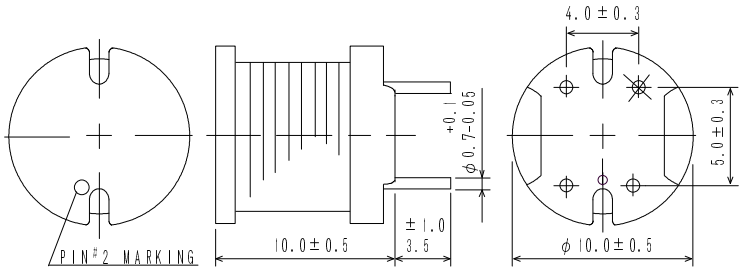
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 2.2 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -30℃～+85℃ (including coil's self temperature rise)
- Storage temperature range: -30℃～+85℃

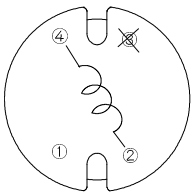
Packaging
- Box packaging.

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]



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Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at 20℃)	DC SUPERPOSITION CURRENT(A)※2		TEMPERATURE RISE CURRENT (A) ※3 △T=40℃
				(at 20℃)	(at 105℃)	
RCH110BNP-100M	100M	10μH ± 20%	30mΩ(24mΩ)	4.3	3.6	4.3
RCH110BNP-120M	120M	12μH ± 20%	33mΩ(26mΩ)	4.1	3.2	4.2
RCH110BNP-150M	150M	15μH ± 20%	36mΩ(29mΩ)	3.7	3.0	3.7
RCH110BNP-180M	180M	18μH ± 20%	38mΩ(31mΩ)	3.4	2.8	3.6
RCH110BNP-220M	220M	22μH ± 20%	47mΩ(37mΩ)	3.0	2.5	3.5
RCH110BNP-270M	270M	27μH ± 20%	51mΩ(41mΩ)	2.9	2.3	3.4
RCH110BNP-330K	330K	33μH ± 10%	58mΩ(46mΩ)	2.6	2.1	3.2
RCH110BNP-390K	390K	39μH ± 10%	63mΩ(50mΩ)	2.4	1.9	3.1
RCH110BNP-470K	470K	47μH ± 10%	71mΩ(57mΩ)	2.2	1.8	2.8
RCH110BNP-560K	560K	56μH ± 10%	78mΩ(63mΩ)	2.0	1.6	2.7
RCH110BNP-680K	680K	68μH ± 10%	105mΩ(84mΩ)	1.8	1.4	2.2
RCH110BNP-820K	820K	82μH ± 10%	120mΩ(95mΩ)	1.6	1.3	2.1
RCH110BNP-101K	101K	100μH ± 10%	150mΩ(107mΩ)	1.5	1.2	2.0
RCH110BNP-121K	121K	120μH ± 10%	180mΩ(140mΩ)	1.3	1.0	1.7
RCH110BNP-151K	151K	150μH ± 10%	200mΩ(160mΩ)	1.2	0.99	1.6
RCH110BNP-181K	181K	180μH ± 10%	280mΩ(220mΩ)	1.1	0.87	1.4
RCH110BNP-221K	221K	220μH ± 10%	0.31(242mΩ)	0.99	0.79	1.3
RCH110BNP-271K	271K	270μH ± 10%	0.36(286mΩ)	0.87	0.70	1.2
RCH110BNP-331K	331K	330μH ± 10%	0.46(0.37)	0.78	0.61	1.0
RCH110BNP-391K	391K	390μH ± 10%	0.58(0.46)	0.72	0.59	0.92
RCH110BNP-471K	471K	470μH ± 10%	0.65(0.52)	0.67	0.50	0.89
RCH110BNP-561K	561K	560μH ± 10%	0.89(0.71)	0.59	0.48	0.75
RCH110BNP-681K	681K	680μH ± 10%	1.10(0.81)	0.54	0.45	0.69
RCH110BNP-821K	821K	820μH ± 10%	1.31(0.92)	0.52	0.41	0.66
RCH110BNP-102K	102K	1.0mH ± 10%	1.71(1.2)	0.45	0.37	0.55

※1.Inductance measuring frequency at 1kHz.
※2.DC superposition current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.
※3.Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

PIN Power Inductor
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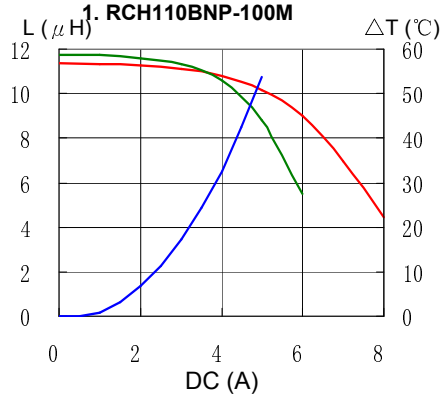
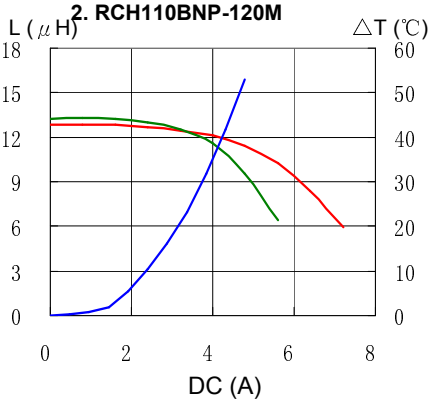
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

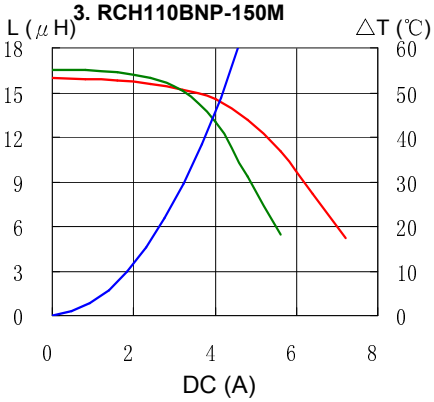
1. RCH110BNP-100M



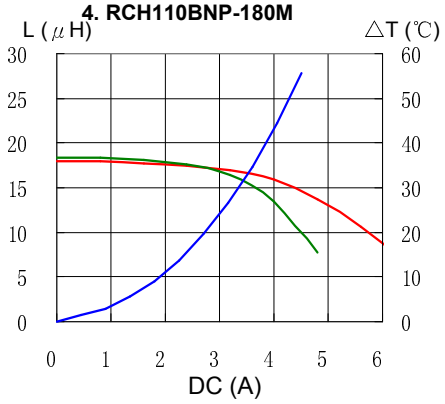
2. RCH110BNP-120M



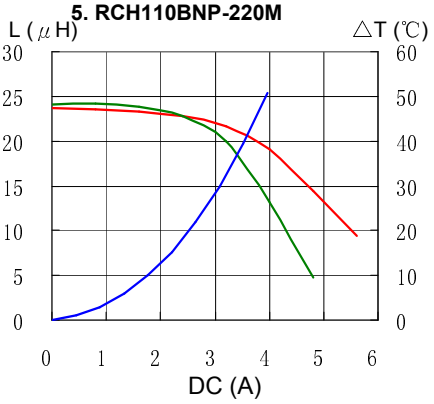
3. RCH110BNP-150M



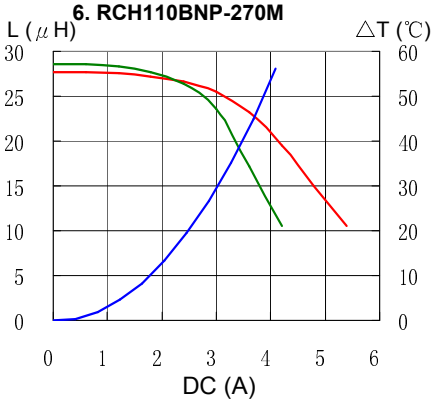
4. RCH110BNP-180M



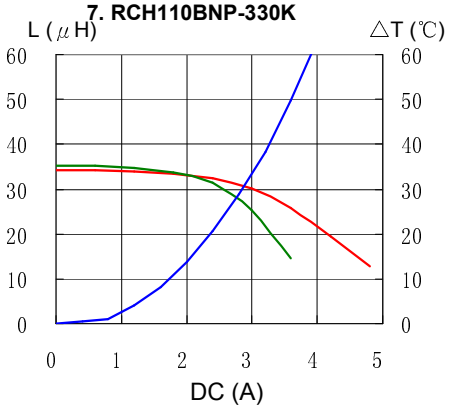
5. RCH110BNP-220M



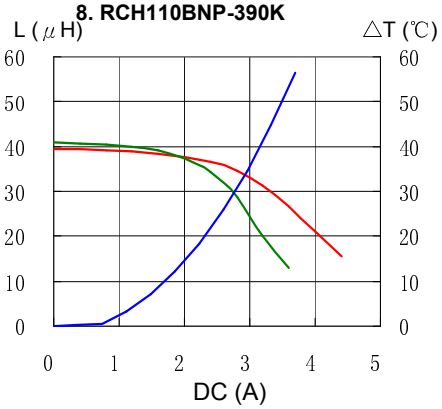
6. RCH110BNP-270M



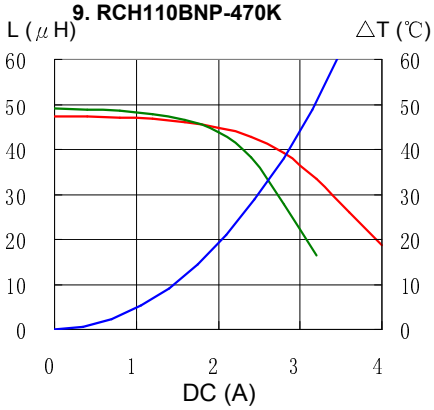
7. RCH110BNP-330K



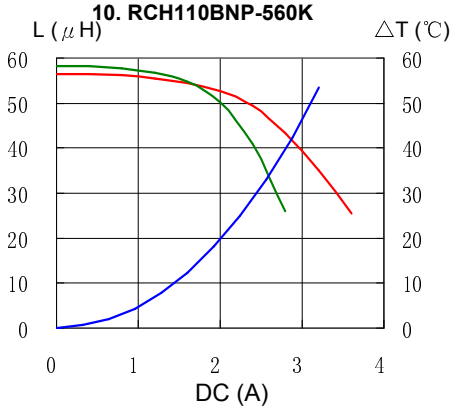
8. RCH110BNP-390K



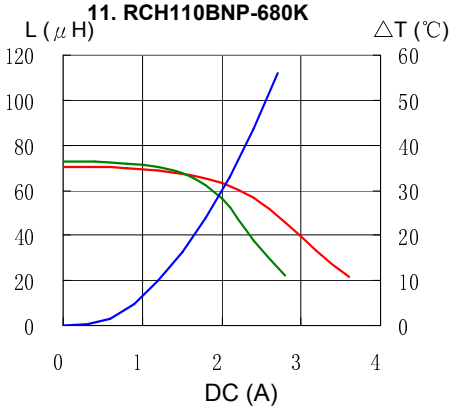
9. RCH110BNP-470K



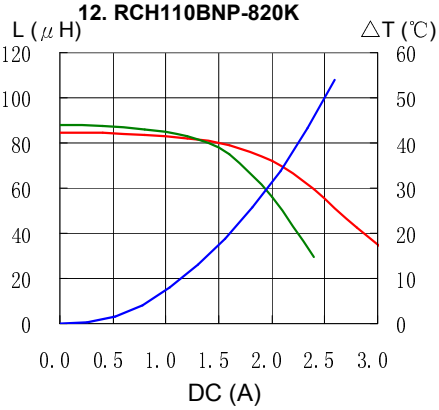
10. RCH110BNP-560K



11. RCH110BNP-680K



12. RCH110BNP-820K



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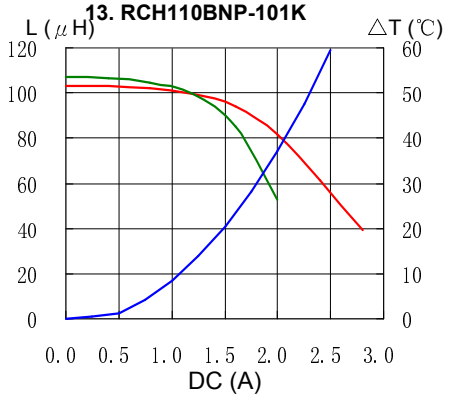
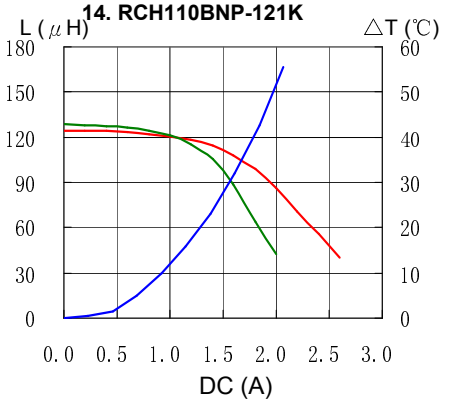
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

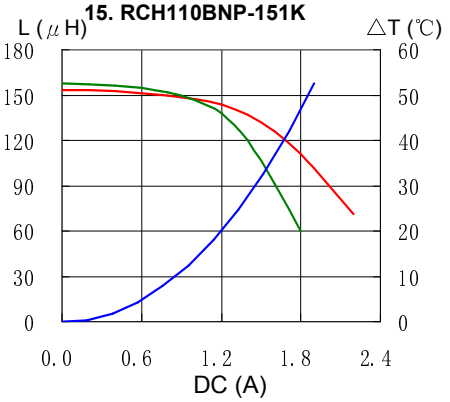
13. RCH110BNP-101K



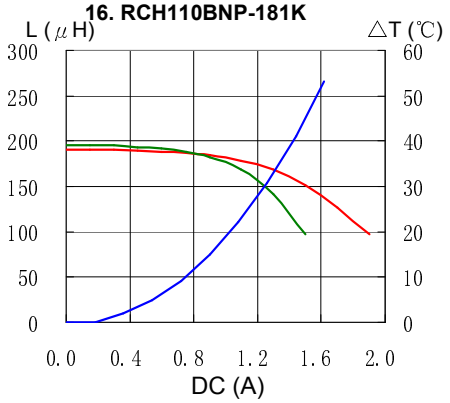
14. RCH110BNP-121K



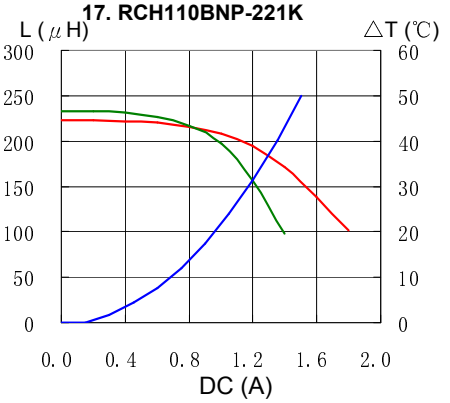
15. RCH110BNP-151K



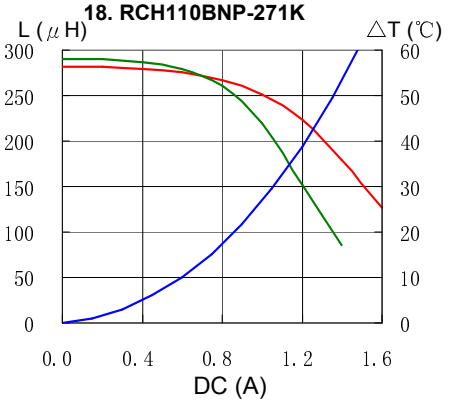
16. RCH110BNP-181K



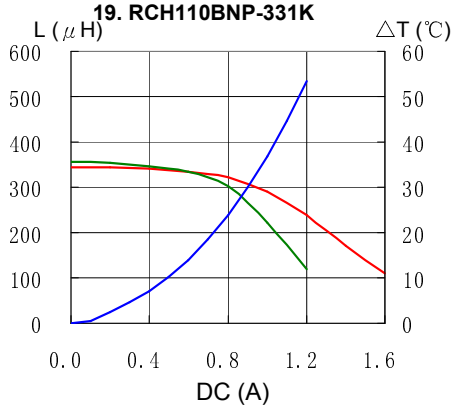
17. RCH110BNP-221K



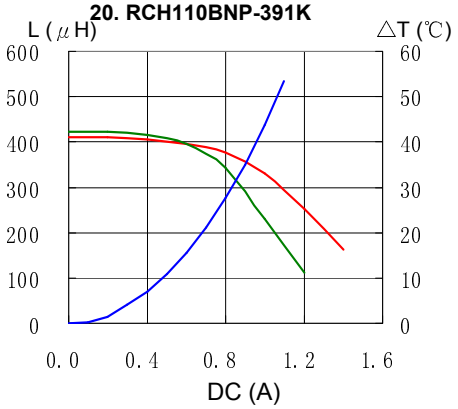
18. RCH110BNP-271K



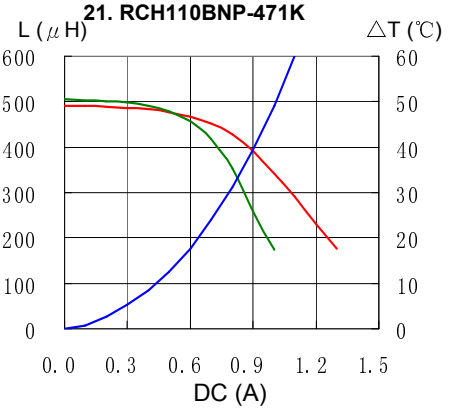
19. RCH110BNP-331K



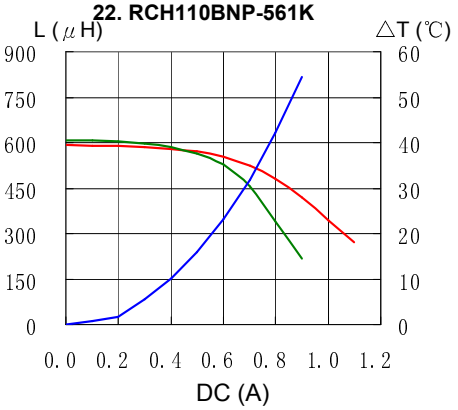
20. RCH110BNP-391K



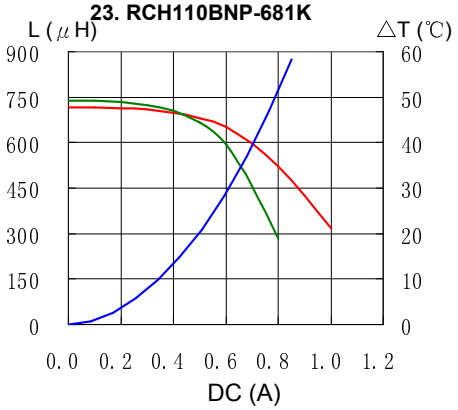
21. RCH110BNP-471K



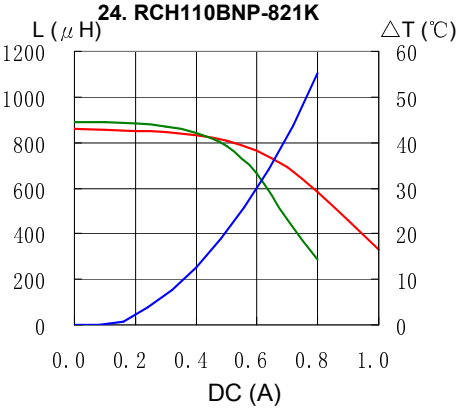
22. RCH110BNP-561K



23. RCH110BNP-681K



24. RCH110BNP-821K



PIN Power Inductor
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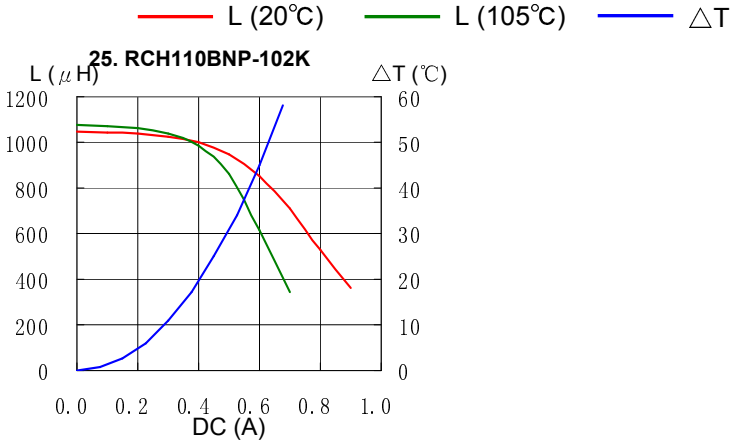
Saturation Current & Temperature Rise Graph



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