PIN Power Inductor
RCR1616

RoHS



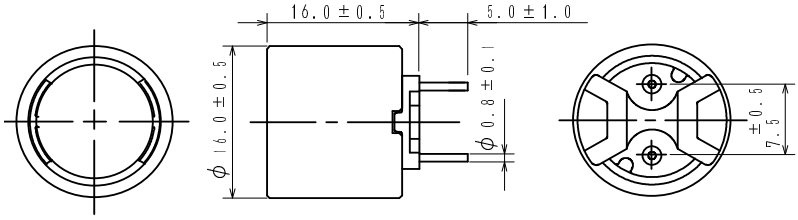
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 16.5 × 16.5 × 16.5mm Max.
- Product weight:.10 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -30℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+85℃

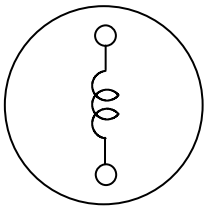
Packaging
- Box packaging.

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]



Revised: 7-Jan-14

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Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Saturation-current (A) ※2	Temperature Rise current (A) ※3
RCR1616NP-4R7M	4R7M	4.7μH±20%	6.70(5.15)	12.6	9.2
RCR1616NP-6R8M	6R8M	6.8μH±20%	9.35(7.20)	9.8	8.0
RCR1616NP-100M	100M	10μH±20%	10.5(8.25)	9.3	7.8
RCR1616NP-120M	120M	12μH±20%	11.0(8.47)	8.5	7.4
RCR1616NP-150M	150M	15μH±20%	14.5(11.2)	7.1	6.2
RCR1616NP-180M	180M	18μH±20%	16.5(12.7)	6.7	6.0
RCR1616NP-220M	220M	22μH±20%	17.0(13.0)	6.2	5.7
RCR1616NP-270M	270M	27μH±20%	20.0(15.2)	5.6	5.2
RCR1616NP-330M	330M	33μH±20%	27.0(20.5)	5.0	4.8
RCR1616NP-390M	390M	39μH±20%	33.0(25.4)	4.6	4.5
RCR1616NP-470M	470M	47μH±20%	37.0(28.4)	4.2	4.1
RCR1616NP-560M	560M	56μH±20%	45.0(34.5)	3.8	3.8
RCR1616NP-680M	680M	68μH±20%	56.0(43.0)	3.3	3.4
RCR1616NP-820M	820M	82μH±20%	64.5(49.5)	2.9	3.1
RCR1616NP-101K	101K	100μH±10%	68.0(52.5)	2.7	2.9
RCR1616NP-121K	121K	120μH±10%	80.0(61.7)	2.5	2.6
RCR1616NP-151K	151K	150μH±10%	91.0(70.0)	2.3	2.4
RCR1616NP-181K	181K	180μH±10%	135(104)	2.0	2.0
RCR1616NP-221K	221K	220μH±10%	155(119)	1.8	1.8
RCR1616NP-271K	271K	270μH±10%	180(140)	1.7	1.7
RCR1616NP-331K	331K	330μH±10%	240(183)	1.5	1.4
RCR1616NP-391K	391K	390μH±10%	255(196)	1.3	1.3
RCR1616NP-471K	471K	470μH±10%	280(215)	1.2	1.3
RCR1616NP-561K	561K	560μH±10%	380(291)	1.1	1.1
RCR1616NP-681K	681K	680μH±10%	515(397)	1.0	1.0
RCR1616NP-821K	821K	820μH±10%	575(443)	0.96	0.99
RCR1616NP-102K	102K	1.0mH±10%	665(513)	0.85	0.93

※1. Inductance measuring condition: at 1kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

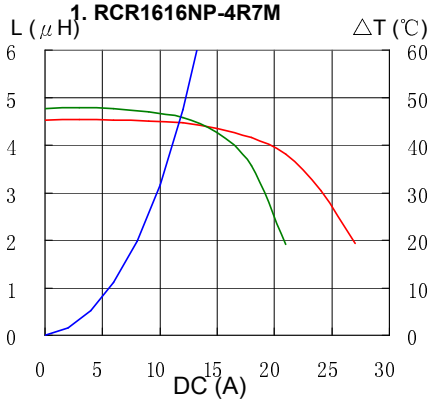
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

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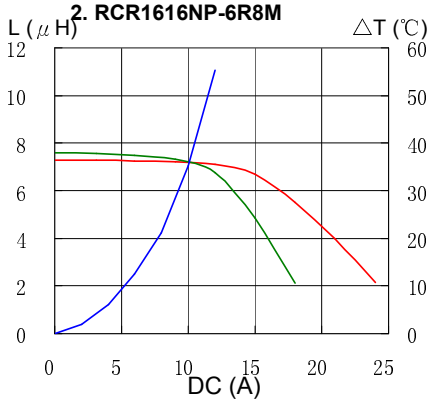
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

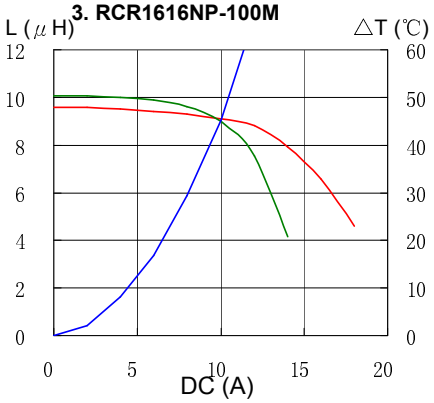
1. RCR1616NP-4R7M



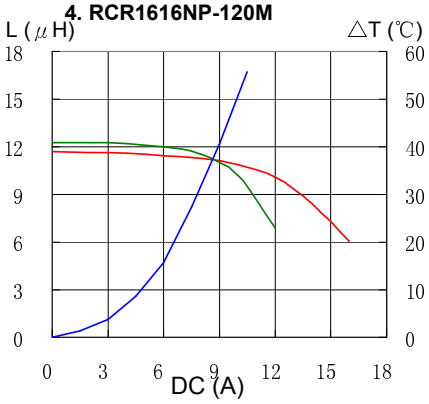
2. RCR1616NP-6R8M



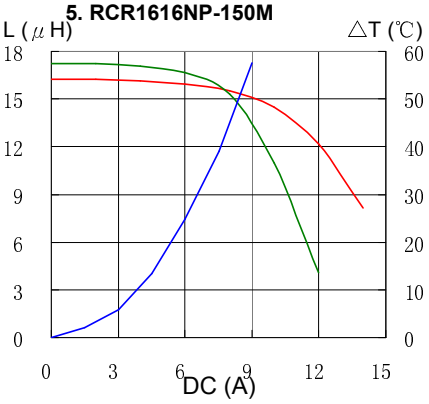
3. RCR1616NP-100M



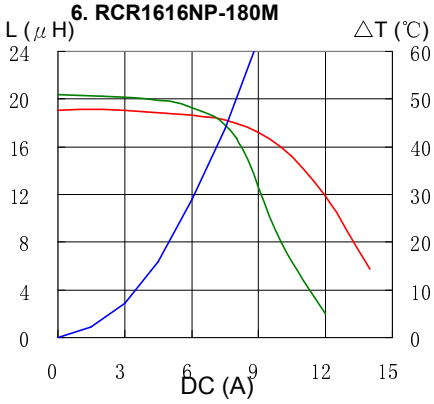
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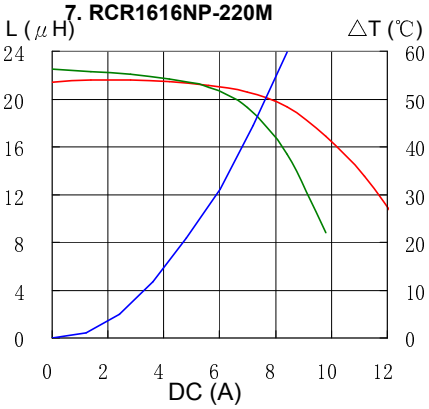
5. RCR1616NP-150M



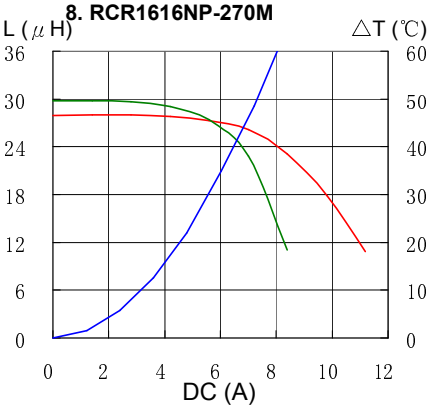
6. RCR1616NP-180M



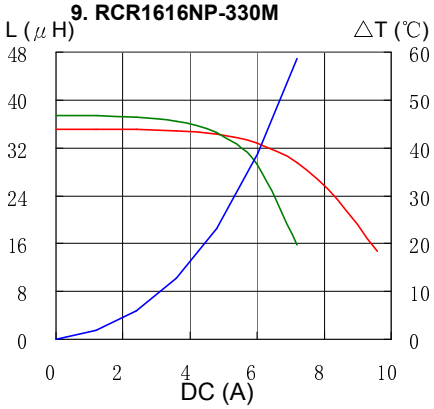
7. RCR1616NP-220M



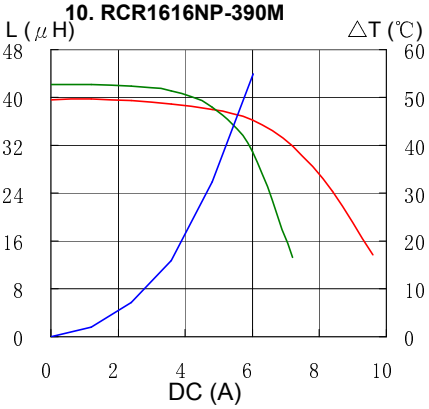
8. RCR1616NP-270M



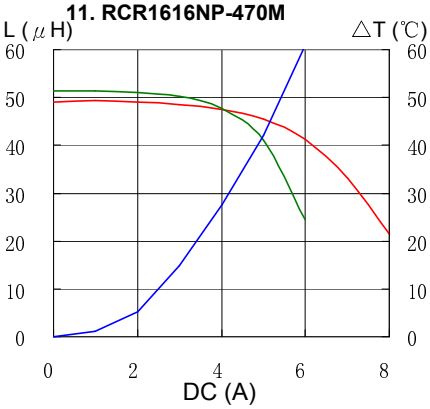
9. RCR1616NP-330M



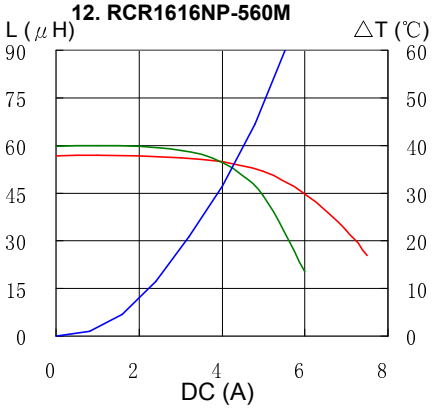
10. RCR1616NP-390M



11. RCR1616NP-470M



12. RCR1616NP-560M

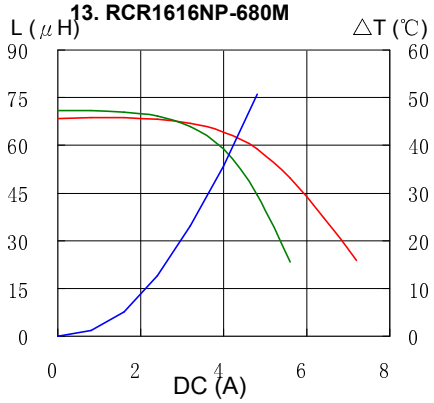


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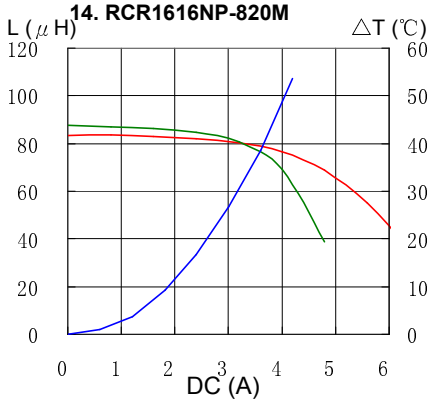
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

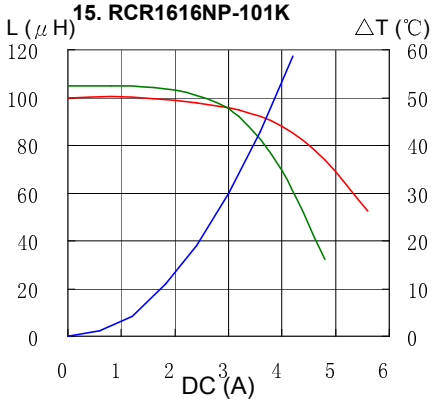
13. RCR1616NP-680M



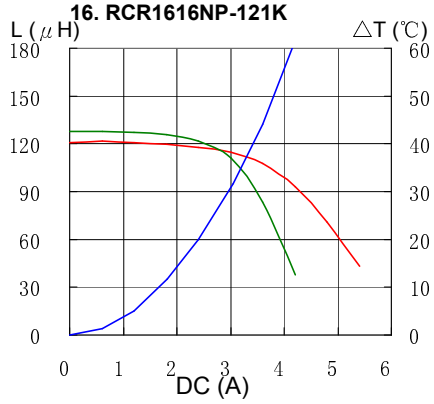
14. RCR1616NP-820M



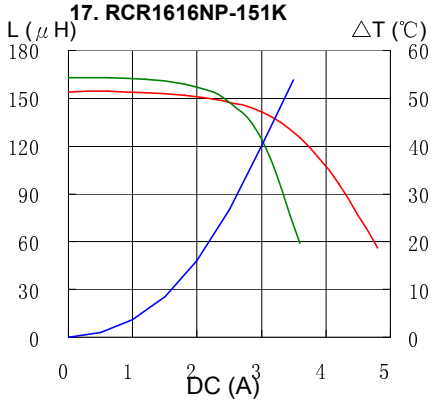
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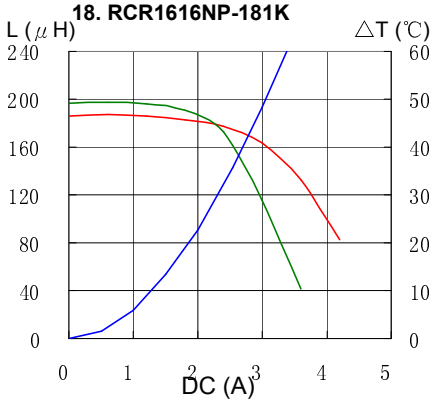
16. RCR1616NP-121K



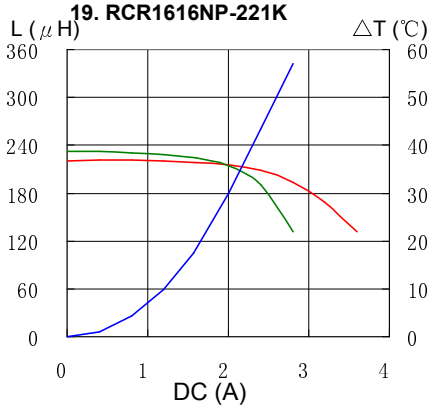
17. RCR1616NP-151K



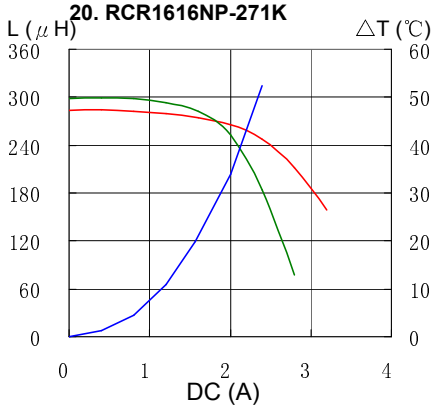
18. RCR1616NP-181K



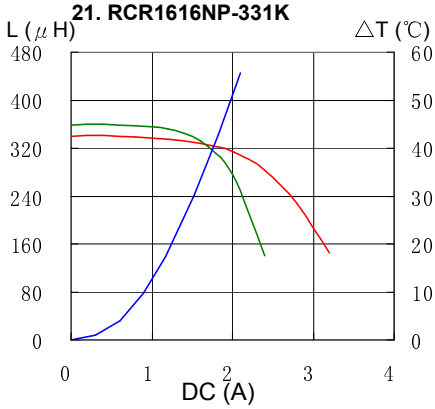
19. RCR1616NP-221K



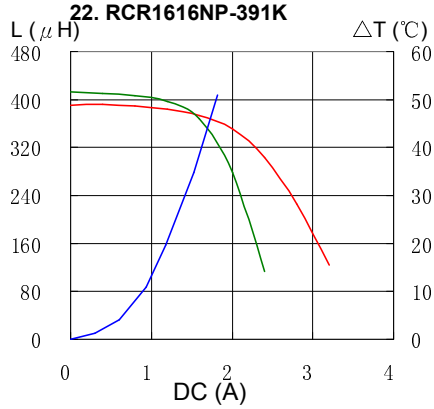
20. RCR1616NP-271K



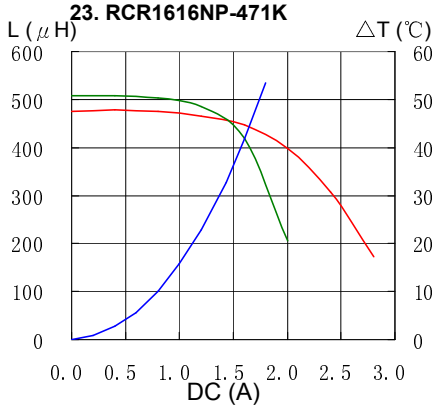
21. RCR1616NP-331K



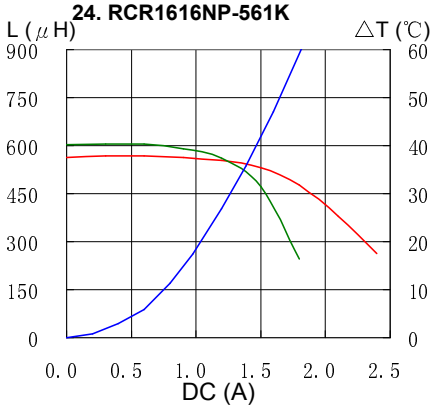
22. RCR1616NP-391K



23. RCR1616NP-471K



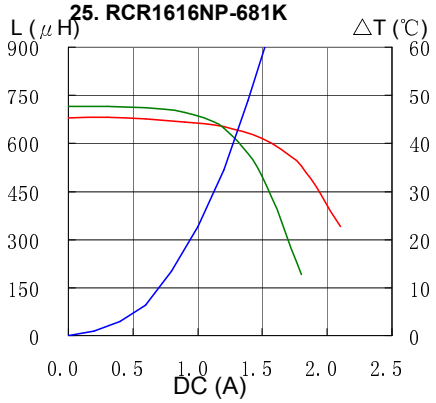
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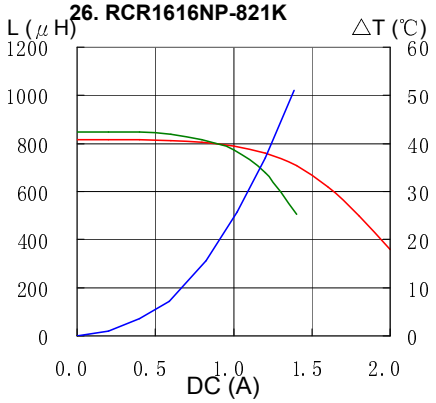
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

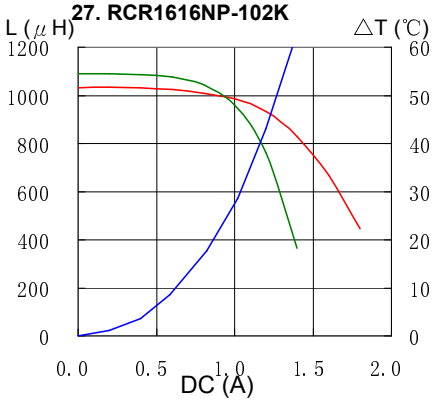
25. RCR1616NP-681K



26. RCR1616NP-821K



27. RCR1616NP-102K



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Hong Kong
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sales@hk.sumida.com

Shanghai
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shanghai.sales@cn.sumida.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

Saitama(Japan)
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FAX.+81-48-691-7340
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Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
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Singapore
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FAX.+65-6841-4426
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San Jose
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FAX.+1-408-321-9308
sales@us.sumida.com

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Obernzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
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