# PIN Power Inductor
## RCH4764B



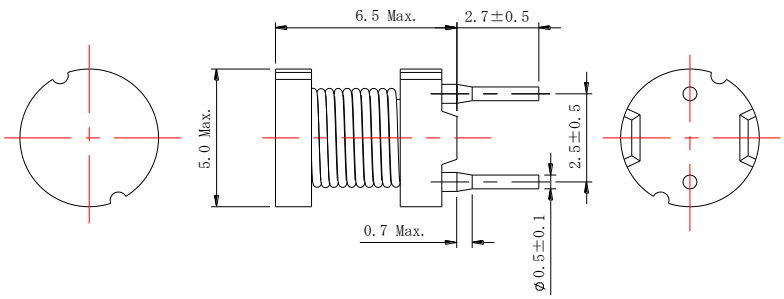
### Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 5.0 × 5.0 × 6.5mm Max.
- Product weight:  0.5 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data
- Operating temperature range: -20℃～+105℃ (including coil's self temperature rise)
- Storage temperature range: -20℃～+85℃

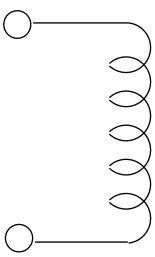
### Packaging
- Box packaging.

### Applications
- Ideally used in Printers, LCD TV, DVD, Copy Machine, Mainboard of the compounding machines etc. as  DC-DC Converter inductors.

### Dimension -  [mm]




### Connection -  [mm]





Revised: 27-Mar-24

## Electrical Characteristics

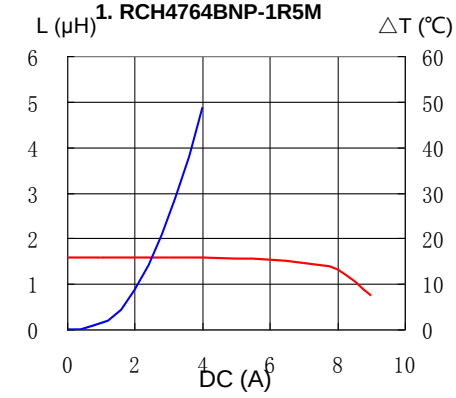
| Part No. | Stamp | Inductance [Within] ※1 | D.C.R. (Ω) Max. (typ.) (at 20℃) | Saturation current (at 20℃) (A) ※3 | Temperature rise current (A) ※4 |
|---|---|---|---|---|---|
| RCH4764BNP-1R5M | C | 1.5μH±20% | 30m(22m) | 5.8 | 3.3 |
| RCH4764BNP-2R7M | F | 2.7μH±20% | 40m(29m) | 4.8 | 2.7 |
| RCH4764BNP-3R9M | H | 3.9μH±20% | 48m(35m) | 3.8 | 2.5 |
| RCH4764BNP-6R8M | L | 6.8μH±20% | 64m(47m) | 2.8 | 2.3 |
| RCH4764BNP-100M | N | 10μH±20% | 100m(74m) | 2.4 | 1.5 |
| RCH4764BNP-220M | S | 22μH±20% | 183m(147m) | 1.7 | 1.2 |
| RCH4764BNP-390M | V | 39μH±20% | 281m(225m) | 1.1 | 1.0 |
| RCH4764BNP-680K | Y | 68μH±10% | 537m(430m) | 0.9 | 0.72 |
| RCH4764BNP-101K | A | 100μH±10% | 843m(675m) | 0.78 | 0.58 |
| RCH4764BNP-271K | F | 270μH±10% | 2.41(1.93) | 0.48 | 0.31 |
| RCH4764BNP-391K | H | 390μH±10% | 3.36(2.69) | 0.39 | 0.25 |
| RCH4764BNP-681K | L | 680μH±10% | 5.56(4.45) | 0.30 | 0.18 |
| RCH4764BNP-102K | N | 1.0mH±10% | 8.25(6.60) | 0.24 | 0.16 |

※1: Inductance measuring condition:1.5uH～6.8uH at 100KHz ; 10uH～1.0mH 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℃).

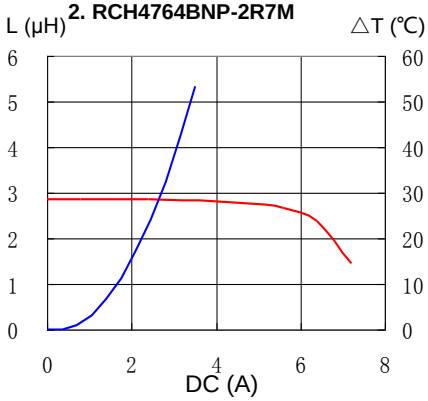
## Saturation Current & Temperature Rise Graph

L (20℃) △T

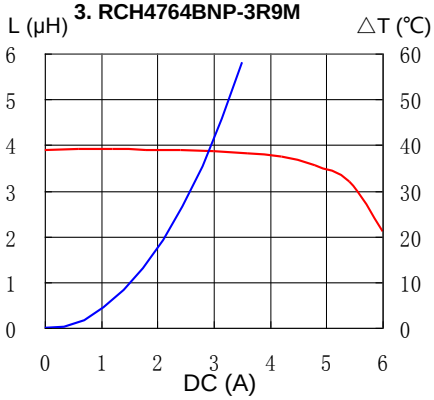
**1. RCH4764BNP-1R5M**



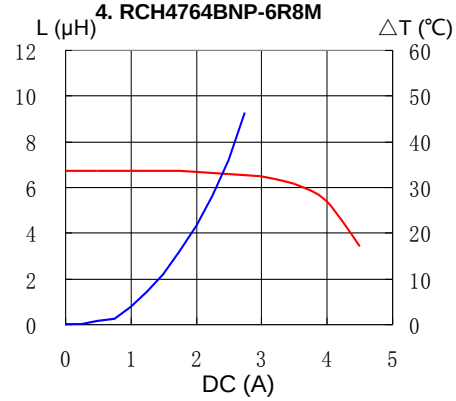

**2. RCH4764BNP-2R7M**



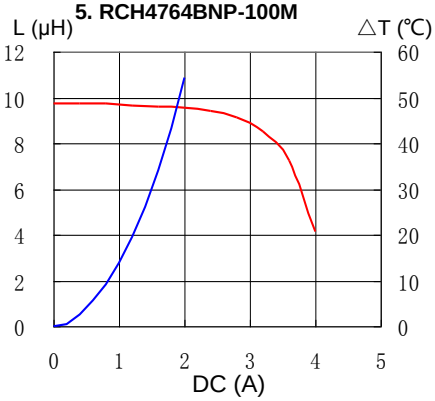

**3. RCH4764BNP-3R9M**



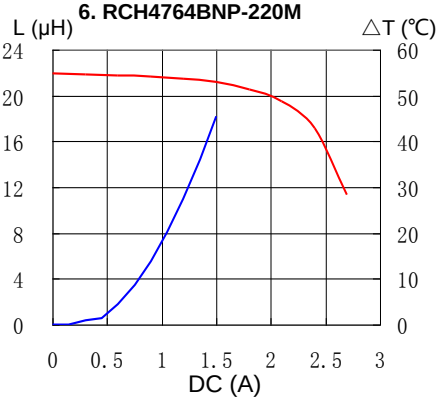

**4. RCH4764BNP-6R8M**



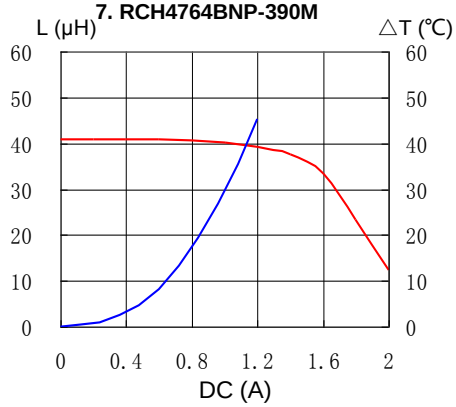

**5. RCH4764BNP-100M**



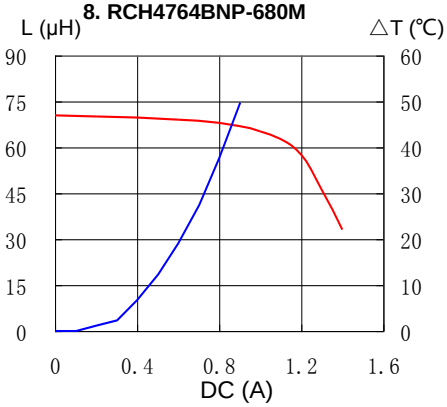

**6. RCH4764BNP-220M**



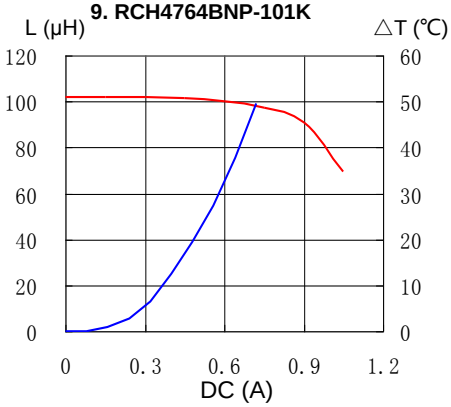

**7. RCH4764BNP-390M**



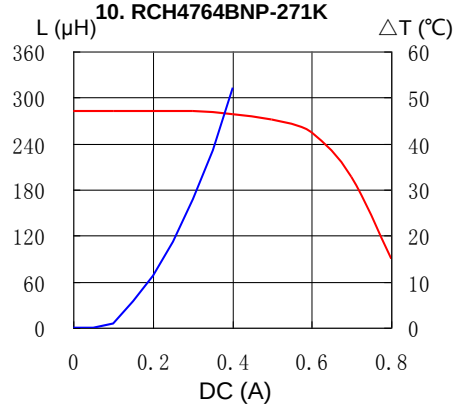

**8. RCH4764BNP-680M**



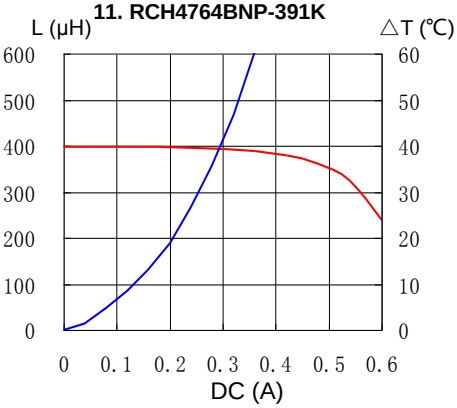

**9. RCH4764BNP-101K**



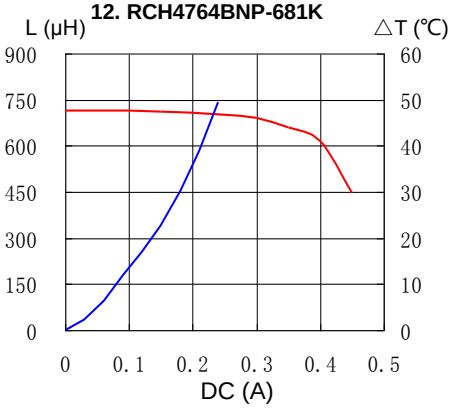

**10. RCH4764BNP-271K**



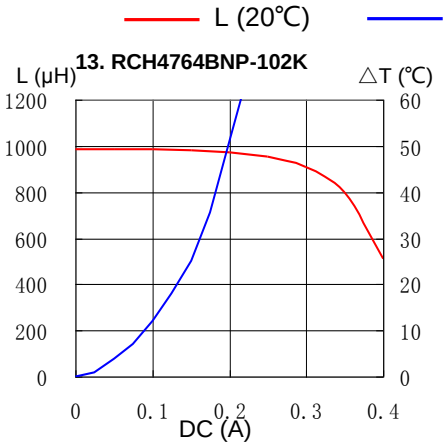

**11. RCH4764BNP-391K**




**12. RCH4764BNP-681K**



## Saturation Current & Temperature Rise Graph




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