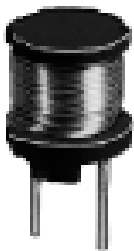




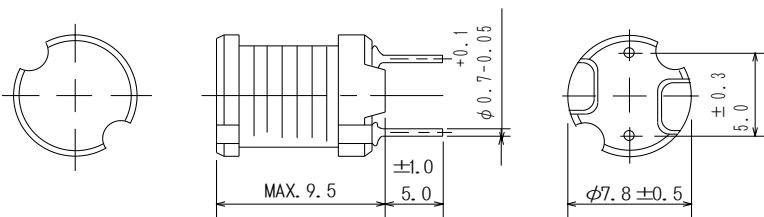
# THE DATASHEET OF RCH895NP-820K

# PIN Power Inductor

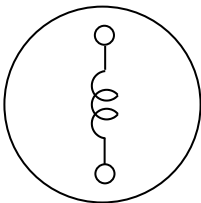
## RCH-895



### Dimension - [mm]



### Schematics - [mm]



### Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 9.5mm Max.
- Product weight: 1.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C

### Packaging

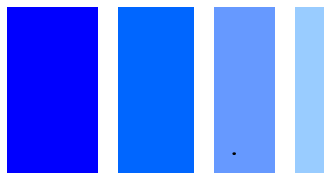
- Box packaging.

### Applications

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

# PIN Power Inductor

## RCH-895

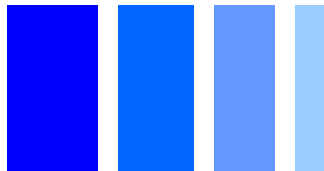


### Electrical Characteristics

| Part Name     | Stamp | Inductance<br>( $\mu\text{H}$ )<br>[ Within ] $\times 1$ | D.C.R<br>[ Max. ] ( $\Omega$ )<br>(at20℃) | Saturation<br>Current<br>( A ) $\times 2$ | Temperature<br>rise current<br>(A) $\times 3$ |
|---------------|-------|----------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------|
| RCH895NP-2R5M | 2R5M  | 2.5 $\mu\text{H} \pm 20\%$                               | 13.7m                                     | 5.0                                       | 3.2                                           |
| RCH895NP-3R2M | 3R2M  | 3.2 $\mu\text{H} \pm 20\%$                               | 15.3m                                     | 4.5                                       | 2.9                                           |
| RCH895NP-3R8M | 3R8M  | 3.8 $\mu\text{H} \pm 20\%$                               | 16.4m                                     | 4.1                                       | 2.7                                           |
| RCH895NP-4R6M | 4R6M  | 4.6 $\mu\text{H} \pm 20\%$                               | 18.5m                                     | 3.7                                       | 2.5                                           |
| RCH895NP-5R5M | 5R5M  | 5.5 $\mu\text{H} \pm 20\%$                               | 20.2m                                     | 3.4                                       | 2.4                                           |
| RCH895NP-6R5M | 6R5M  | 6.5 $\mu\text{H} \pm 20\%$                               | 20.8m                                     | 3.2                                       | 2.3                                           |
| RCH895NP-7R7M | 7R7M  | 7.7 $\mu\text{H} \pm 20\%$                               | 22.4m                                     | 2.9                                       | 2.2                                           |
| RCH895NP-9R2M | 9R2M  | 9.2 $\mu\text{H} \pm 20\%$                               | 24.1m                                     | 2.7                                       | 2.1                                           |
| RCH895NP-100M | 100M  | 10 $\mu\text{H} \pm 20\%$                                | 0.04                                      | 2.6                                       | 2.0                                           |
| RCH895NP-120M | 120M  | 12 $\mu\text{H} \pm 20\%$                                | 0.04                                      | 2.6                                       | 1.9                                           |
| RCH895NP-150K | 150K  | 15 $\mu\text{H} \pm 10\%$                                | 0.05                                      | 2.1                                       | 1.8                                           |
| RCH895NP-180K | 180K  | 18 $\mu\text{H} \pm 10\%$                                | 0.05                                      | 2.0                                       | 1.6                                           |
| RCH895NP-220K | 220K  | 22 $\mu\text{H} \pm 10\%$                                | 0.06                                      | 1.7                                       | 1.4                                           |
| RCH895NP-270K | 270K  | 27 $\mu\text{H} \pm 10\%$                                | 0.06                                      | 1.6                                       | 1.3                                           |
| RCH895NP-330K | 330K  | 33 $\mu\text{H} \pm 10\%$                                | 0.07                                      | 1.4                                       | 1.1                                           |
| RCH895NP-390K | 390K  | 39 $\mu\text{H} \pm 10\%$                                | 0.08                                      | 1.4                                       | 1.1                                           |
| RCH895NP-470K | 470K  | 47 $\mu\text{H} \pm 10\%$                                | 0.10                                      | 1.3                                       | 0.99                                          |
| RCH895NP-560K | 560K  | 56 $\mu\text{H} \pm 10\%$                                | 0.11                                      | 1.2                                       | 0.90                                          |
| RCH895NP-680K | 680K  | 68 $\mu\text{H} \pm 10\%$                                | 0.14                                      | 1.1                                       | 0.81                                          |
| RCH895NP-820K | 820K  | 82 $\mu\text{H} \pm 10\%$                                | 0.16                                      | 1.0                                       | 0.76                                          |
| RCH895NP-101K | 101K  | 100 $\mu\text{H} \pm 10\%$                               | 0.19                                      | 0.90                                      | 0.72                                          |
| RCH895NP-121K | 121K  | 120 $\mu\text{H} \pm 10\%$                               | 0.22                                      | 0.82                                      | 0.67                                          |
| RCH895NP-151K | 151K  | 150 $\mu\text{H} \pm 10\%$                               | 0.27                                      | 0.74                                      | 0.61                                          |
| RCH895NP-181K | 181K  | 180 $\mu\text{H} \pm 10\%$                               | 0.31                                      | 0.71                                      | 0.54                                          |
| RCH895NP-221K | 221K  | 220 $\mu\text{H} \pm 10\%$                               | 0.38                                      | 0.64                                      | 0.50                                          |
| RCH895NP-271K | 271K  | 270 $\mu\text{H} \pm 10\%$                               | 0.53                                      | 0.57                                      | 0.41                                          |
| RCH895NP-331K | 331K  | 330 $\mu\text{H} \pm 10\%$                               | 0.61                                      | 0.51                                      | 0.39                                          |
| RCH895NP-391K | 391K  | 390 $\mu\text{H} \pm 10\%$                               | 0.69                                      | 0.48                                      | 0.37                                          |
| RCH895NP-471K | 471K  | 470 $\mu\text{H} \pm 10\%$                               | 0.89                                      | 0.43                                      | 0.32                                          |
| RCH895NP-561K | 561K  | 560 $\mu\text{H} \pm 10\%$                               | 1.01                                      | 0.40                                      | 0.30                                          |
| RCH895NP-681K | 681K  | 680 $\mu\text{H} \pm 10\%$                               | 1.18                                      | 0.35                                      | 0.27                                          |
| RCH895NP-821K | 821K  | 820 $\mu\text{H} \pm 10\%$                               | 1.57                                      | 0.32                                      | 0.24                                          |

# PIN Power Inductor

## RCH-895



### Electrical Characteristics

| Part Name     | Stamp | Inductance<br>(mH)<br>[ Within ] ※ 1 | D.C.R<br>[ Max. ] (Ω)<br>(at20℃) | Saturation<br>Current<br>(A) ※ 2 | Temperature<br>rise current<br>(A) ※ 3 |
|---------------|-------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------------|
| RCH895NP-102K | 102K  | 1.0mH ± 10%                          | 1.84                             | 0.30                             | 0.22                                   |
| RCH895NP-122K | 122K  | 1.2mH ± 10%                          | 2.10                             | 0.27                             | 0.21                                   |
| RCH895NP-152K | 152K  | 1.5mH ± 10%                          | 2.80                             | 0.23                             | 0.18                                   |
| RCH895NP-182K | 182K  | 1.8mH ± 10%                          | 3.21                             | 0.21                             | 0.17                                   |
| RCH895NP-222K | 222K  | 2.2mH ± 10%                          | 4.21                             | 0.19                             | 0.15                                   |
| RCH895NP-272K | 272K  | 2.7mH ± 10%                          | 4.94                             | 0.17                             | 0.14                                   |
| RCH895NP-332K | 332K  | 3.3mH ± 10%                          | 6.16                             | 0.15                             | 0.12                                   |
| RCH895NP-392K | 392K  | 3.9mH ± 10%                          | 6.84                             | 0.14                             | 0.11                                   |
| RCH895NP-472K | 472K  | 4.7mH ± 10%                          | 7.89                             | 0.13                             | 0.10                                   |
| RCH895NP-562K | 562K  | 5.6mH ± 10%                          | 11.5                             | 0.12                             | 86m                                    |
| RCH895NP-682K | 682K  | 6.8mH ± 10%                          | 13.2                             | 0.11                             | 80m                                    |
| RCH895NP-822K | 822K  | 8.2mH ± 10%                          | 15.3                             | 0.10                             | 75m                                    |
| RCH895NP-103K | 103K  | 10mH ± 10%                           | 22.0                             | 89m                              | 62m                                    |
| RCH895NP-123K | 123K  | 12mH ± 10%                           | 25.0                             | 73m                              | 59m                                    |
| RCH895NP-153K | 153K  | 15mH ± 10%                           | 29.1                             | 68m                              | 57m                                    |
| RCH895NP-183K | 183K  | 18mH ± 10%                           | 38.9                             | 66m                              | 48m                                    |
| RCH895NP-223K | 223K  | 22mH ± 10%                           | 44.9                             | 59m                              | 42m                                    |
| RCH895NP-273K | 273K  | 27mH ± 10%                           | 55.7                             | 52m                              | 39m                                    |
| RCH895NP-333K | 333K  | 33mH ± 10%                           | 64.2                             | 48m                              | 37m                                    |
| RCH895NP-393K | 393K  | 39mH ± 10%                           | 74.2                             | 42m                              | 35m                                    |
| RCH895NP-473K | 473K  | 47mH ± 10%                           | 96.4                             | 38m                              | 31m                                    |

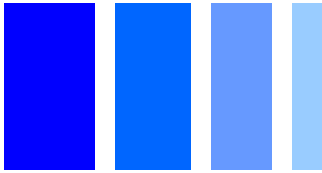
※1: Inductance Measuring frequency : 2.5μH ~ 9.2μH at 7.96MHz; 10μH ~ 82μH at 2.52MHz; 100μH ~ 47 mH at 1 kHz

※2: Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

※3: Temperature rise current: The DC current at which the temperature rise is Δt=20℃.(Ta=20℃).

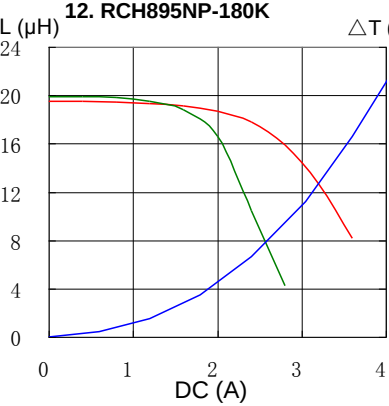
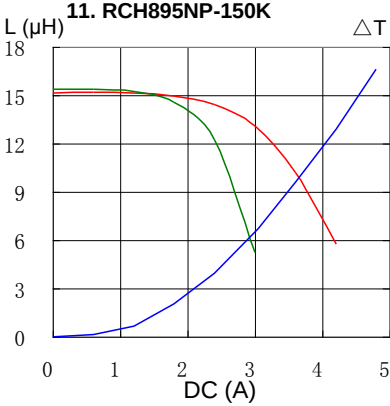
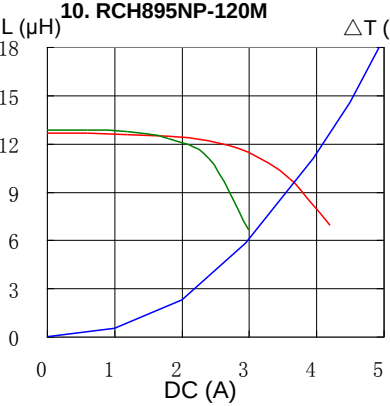
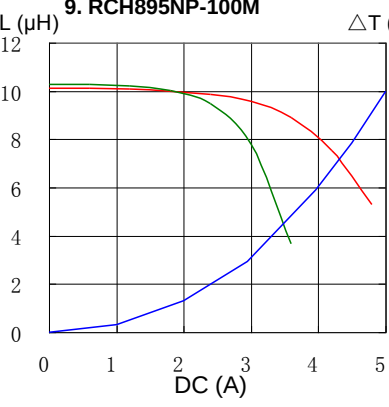
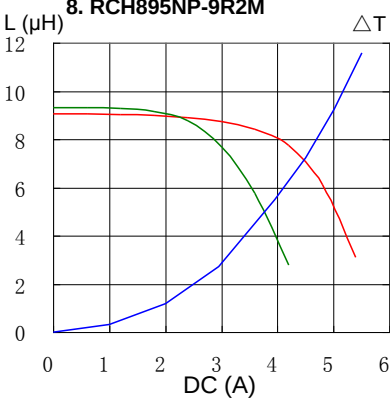
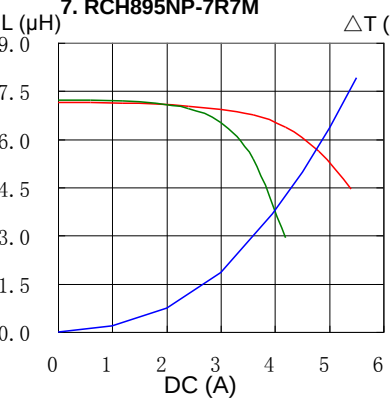
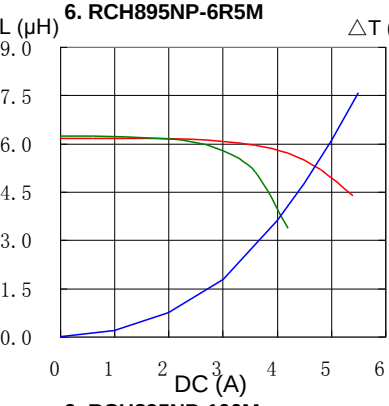
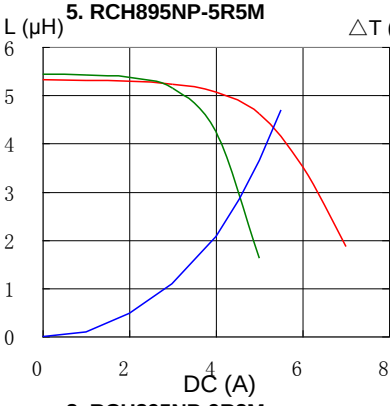
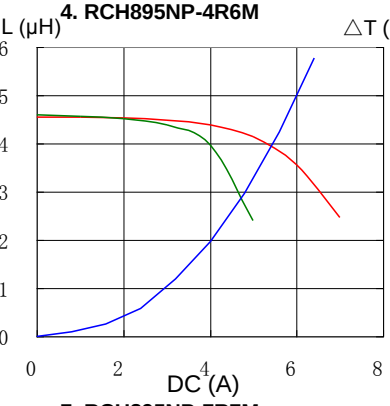
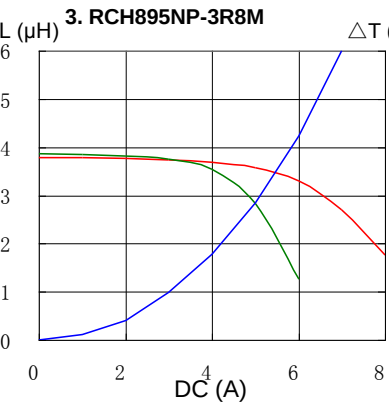
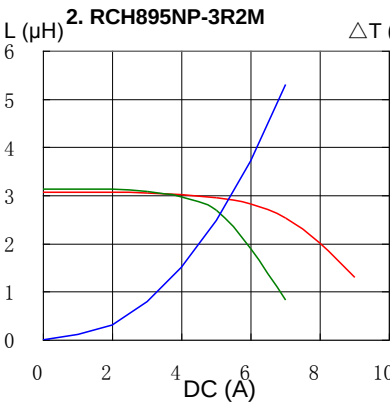
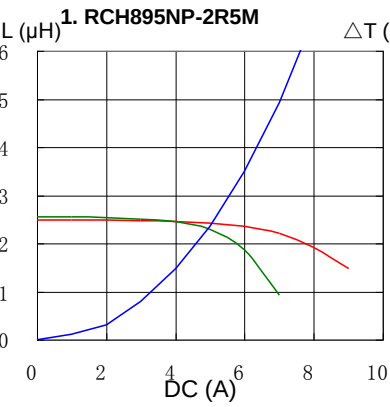
# PIN Power Inductor

## RCH-895



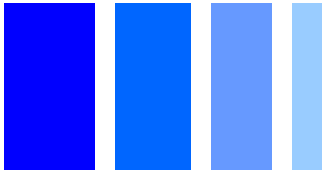
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



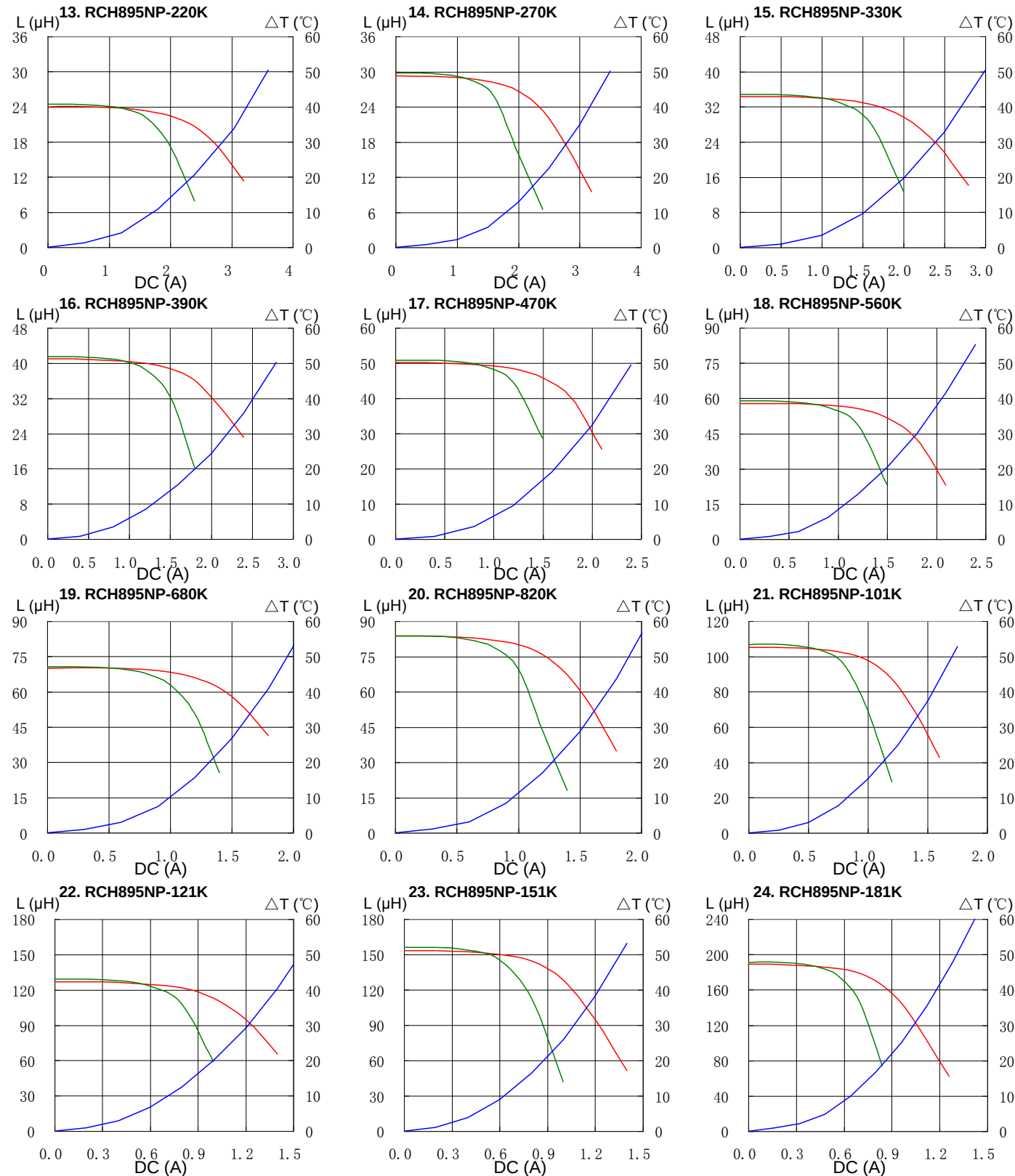
# PIN Power Inductor

## RCH-895



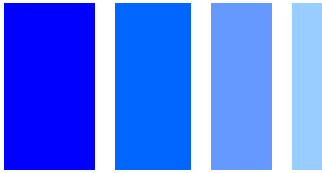
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



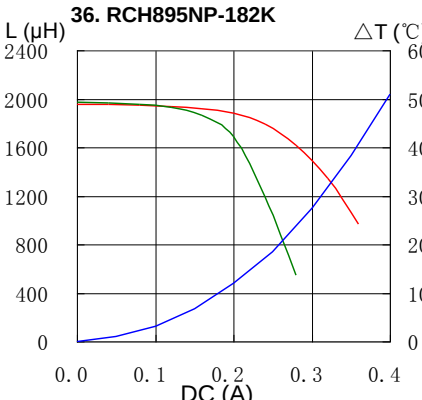
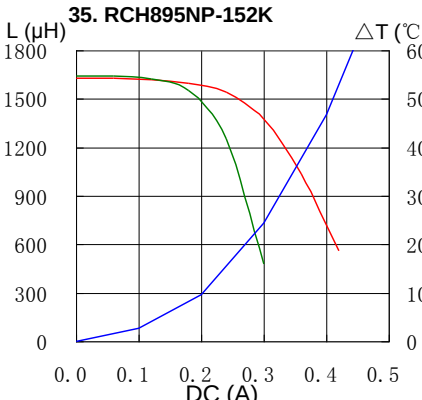
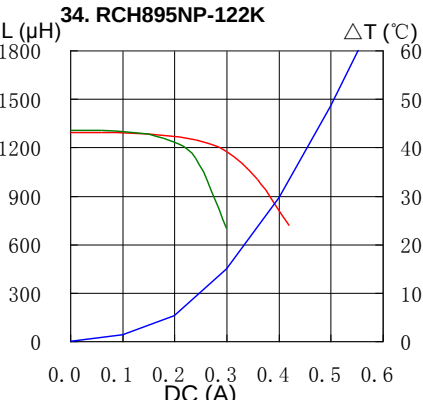
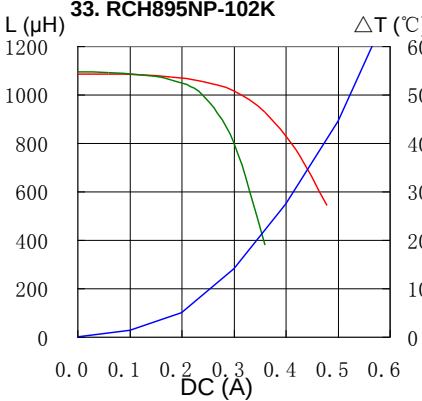
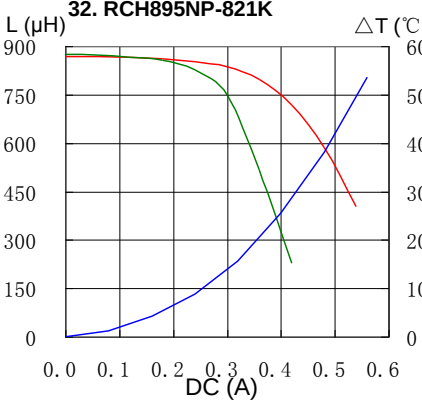
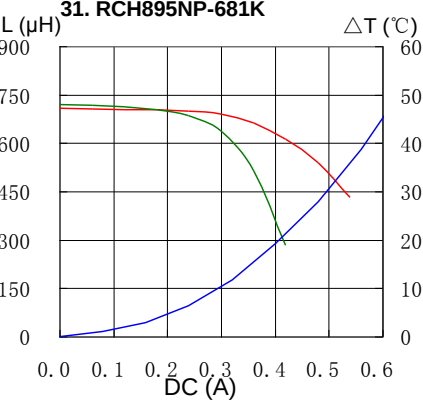
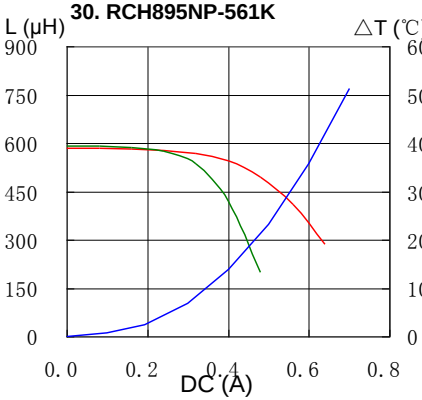
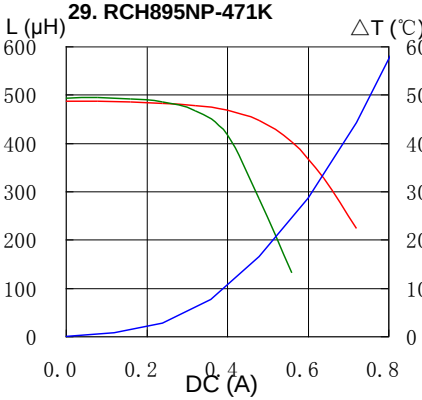
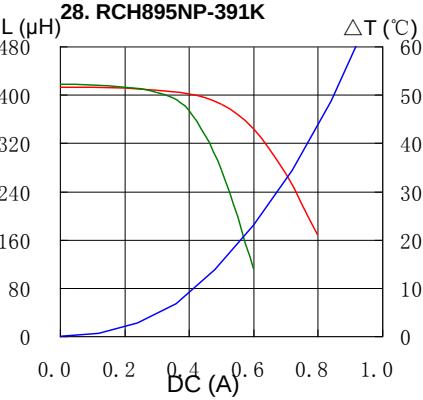
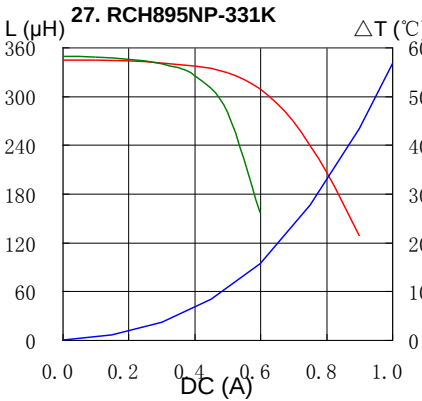
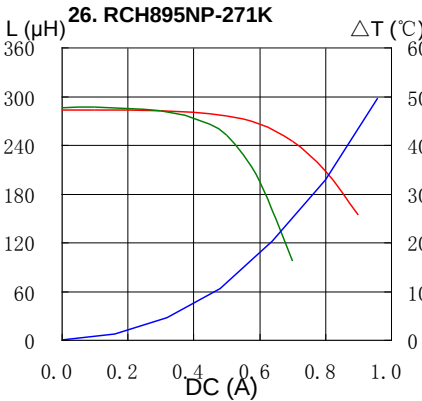
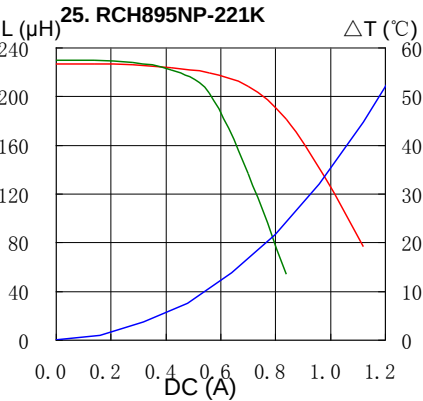
# PIN Power Inductor

## RCH-895



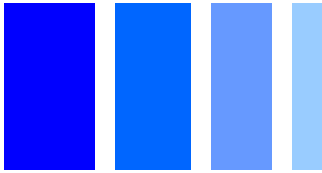
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



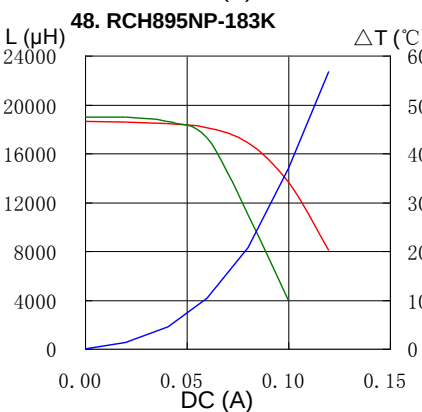
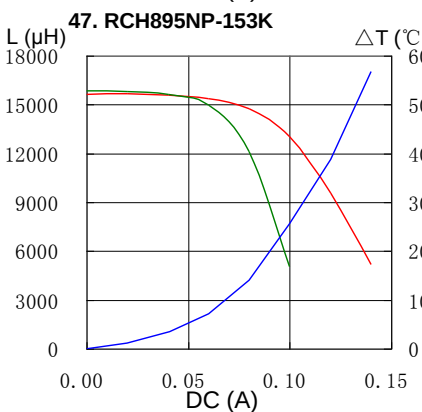
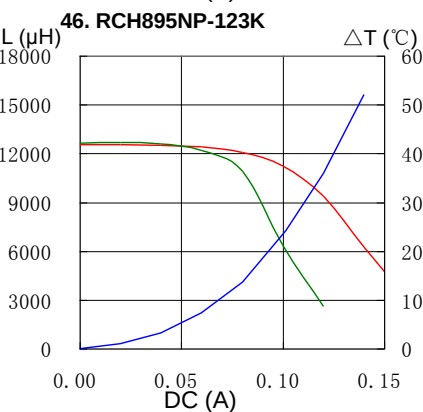
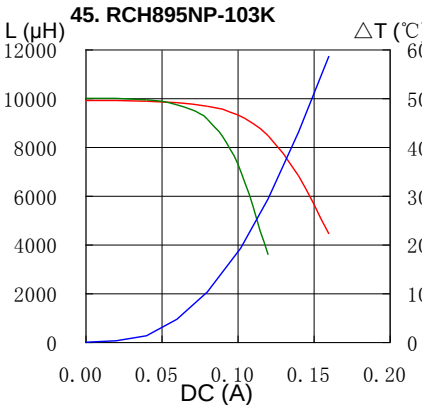
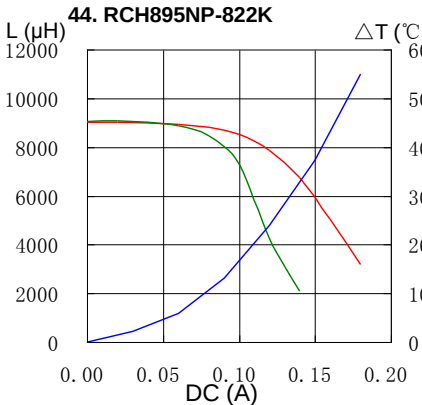
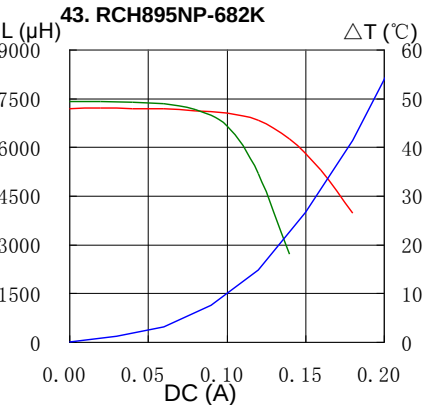
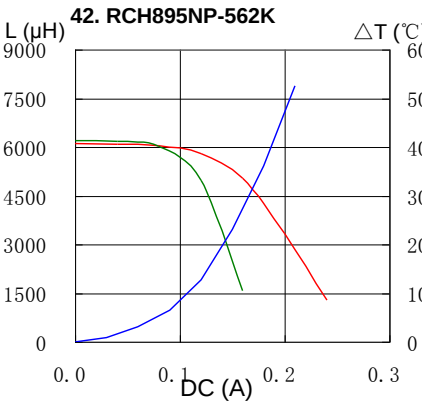
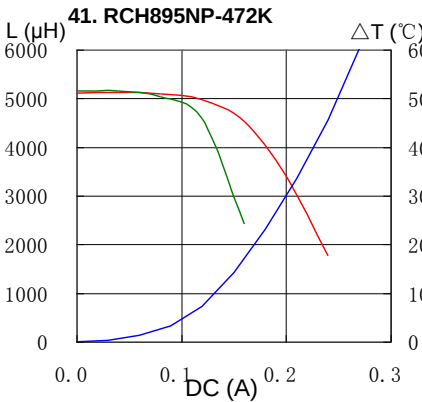
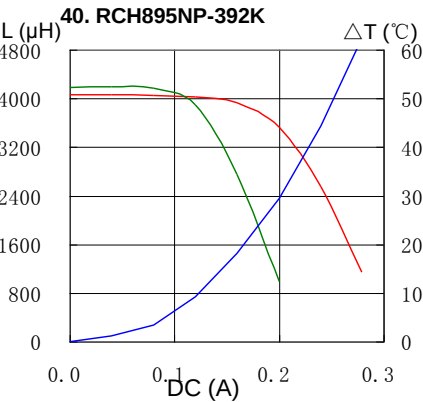
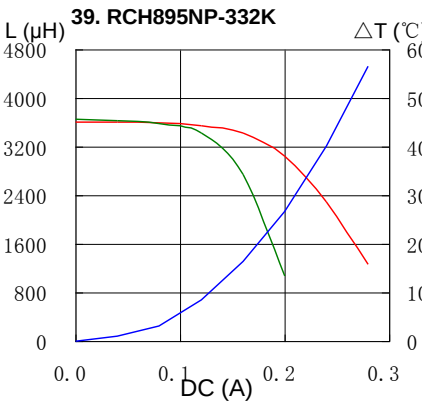
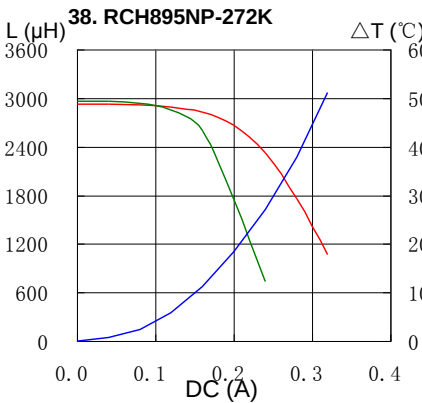
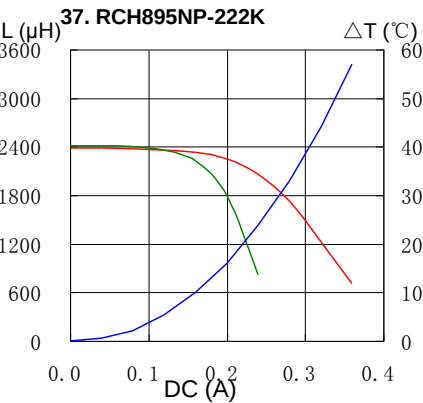
# PIN Power Inductor

## RCH-895



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

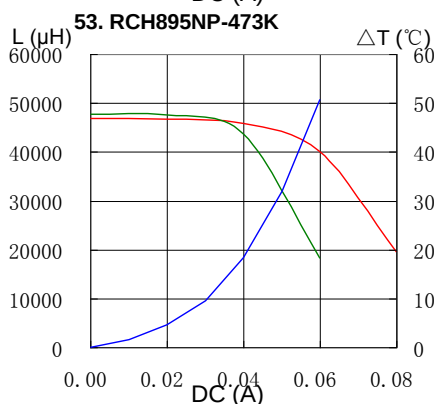
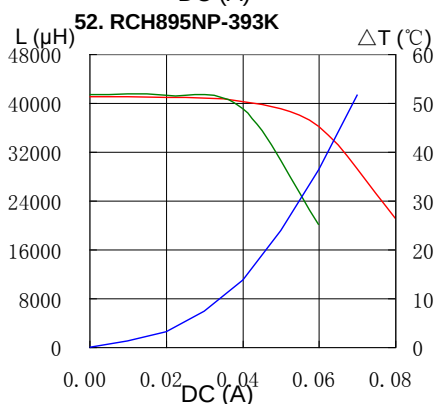
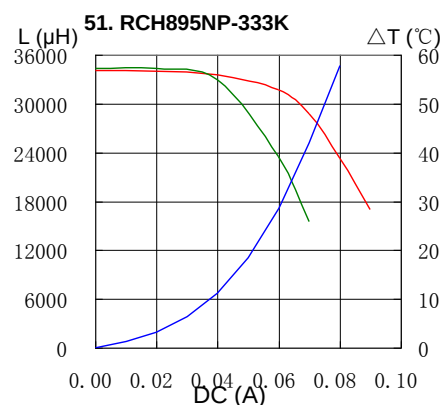
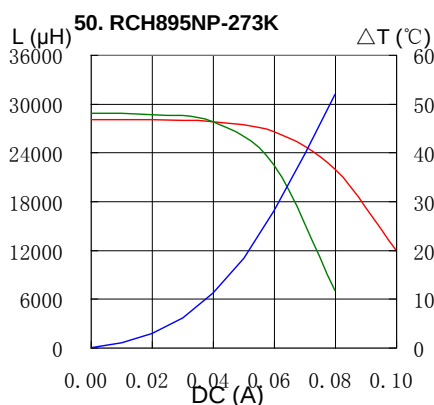
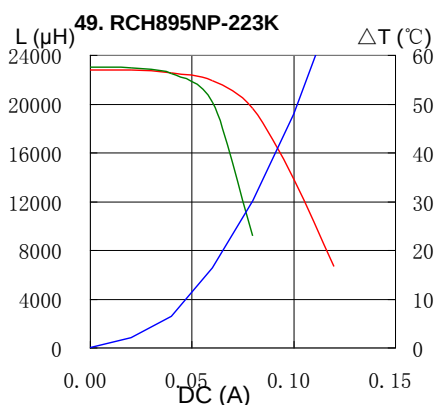


# PIN Power Inductor RCH-895



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



Please refer to the sales offices on our website - <http://www.sumida.com>

### Hong Kong

Tel.+852-2880-6781  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

### Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ View [RCH895NP-820K](#) on WIN SOURCE
- ⊖ [Sumida America Components Inc.](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management