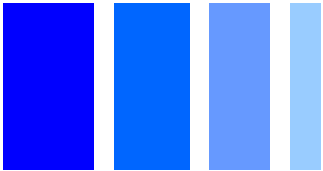


# PIN Power Inductor

## RCR-875D



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 7.5mm Max.
- Product weight: 1.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40°C~+85°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+85°C

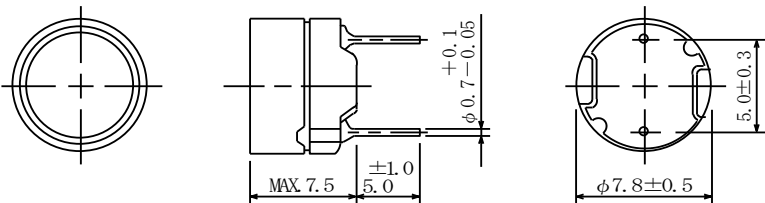
### Packaging

- Box packaging.

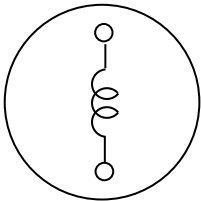
### Applications

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

### Dimension - [mm]

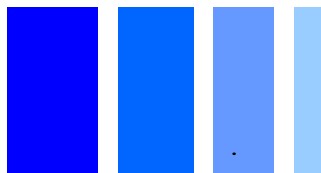


### Schematics - [mm]



# PIN Power Inductor

## RCR-875D



### Electrical Characteristics

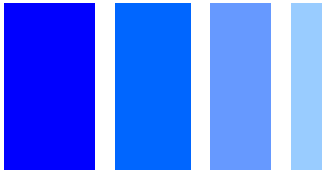
| Part Name                                                            | Stamp                        | Inductance<br>( $\mu\text{H}$ )<br>[Within] $\times 1$                                                               | D.C.R.<br>( $\Omega$ ) [Max.]<br>at 20°C | Rated<br>Current<br>(mA) $\times 2$ |
|----------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|
| RCR875DNP-1R2L<br>RCR875DNP-1R7L<br>RCR875DNP-2R3L<br>RCR875DNP-3R0L | 1R2L<br>1R7L<br>2R3L<br>3R0L | 1.2 $\mu\text{H} \pm 15\%$<br>1.7 $\mu\text{H} \pm 15\%$<br>2.3 $\mu\text{H} \pm 15\%$<br>3.0 $\mu\text{H} \pm 15\%$ | 18 m<br>22 m<br>25 m<br>28m              | 4140<br>3750<br>3450<br>3250        |
| RCR875DNP-3R9L<br>RCR875DNP-4R7L<br>RCR875DNP-5R6L                   | 3R9L<br>4R7L<br>5R6L         | 3.9 $\mu\text{H} \pm 15\%$<br>4.7 $\mu\text{H} \pm 15\%$<br>5.6 $\mu\text{H} \pm 15\%$                               | 31m<br>35m<br>39m                        | 3080<br>2940<br>2820                |
| RCR875DNP-7R0L<br>RCR875DNP-8R2L<br>RCR875DNP-100L<br>RCR875DNP-120L | 7R0L<br>8R2L<br>100L<br>120L | 7.0 $\mu\text{H} \pm 15\%$<br>8.2 $\mu\text{H} \pm 15\%$<br>10 $\mu\text{H} \pm 15\%$<br>12 $\mu\text{H} \pm 15\%$   | 43m<br>47m<br>50m<br>54m                 | 2680<br>2550<br>2400<br>2250        |
| RCR875DNP-150L<br>RCR875DNP-180L                                     | 150L<br>180L                 | 15 $\mu\text{H} \pm 15\%$<br>18 $\mu\text{H} \pm 15\%$                                                               | 62m<br>71m                               | 1950<br>1780                        |
| RCR875DNP-220L<br>RCR875DNP-270L<br>RCR875DNP-330L<br>RCR875DNP-390L | 220L<br>270L<br>330L<br>390L | 22 $\mu\text{H} \pm 15\%$<br>27 $\mu\text{H} \pm 15\%$<br>33 $\mu\text{H} \pm 15\%$<br>39 $\mu\text{H} \pm 15\%$     | 0.08<br>0.10<br>0.14<br>0.15             | 1600<br>1400<br>1300<br>1200        |
| RCR875DNP-470L<br>RCR875DNP-560K<br>RCR875DNP-680K<br>RCR875DNP-820K | 470L<br>560K<br>680K<br>820K | 47 $\mu\text{H} \pm 15\%$<br>56 $\mu\text{H} \pm 10\%$<br>68 $\mu\text{H} \pm 10\%$<br>82 $\mu\text{H} \pm 10\%$     | 0.17<br>0.19<br>0.21<br>0.27             | 1100<br>990<br>890<br>810           |
| RCR875DNP-101K<br>RCR875DNP-121K<br>RCR875DNP-151K<br>RCR875DNP-181K | 101K<br>121K<br>151K<br>181K | 100 $\mu\text{H} \pm 10\%$<br>120 $\mu\text{H} \pm 10\%$<br>150 $\mu\text{H} \pm 10\%$<br>180 $\mu\text{H} \pm 10\%$ | 0.32<br>0.36<br>0.51<br>0.57             | 740<br>670<br>600<br>550            |
| RCR875DNP-221K<br>RCR875DNP-271K<br>RCR875DNP-331K<br>RCR875DNP-391K | 221K<br>271K<br>331K<br>391K | 220 $\mu\text{H} \pm 10\%$<br>270 $\mu\text{H} \pm 10\%$<br>330 $\mu\text{H} \pm 10\%$<br>390 $\mu\text{H} \pm 10\%$ | 0.76<br>0.86<br>0.97<br>1.28             | 500<br>450<br>410<br>370            |
| RCR875DNP-471K<br>RCR875DNP-561K<br>RCR875DNP-681K<br>RCR875DNP-821K | 471K<br>561K<br>681K<br>821K | 470 $\mu\text{H} \pm 10\%$<br>560 $\mu\text{H} \pm 10\%$<br>680 $\mu\text{H} \pm 10\%$<br>820 $\mu\text{H} \pm 10\%$ | 1.44<br>1.61<br>2.07<br>2.33             | 340<br>310<br>280<br>260            |
| RCR875DNP-102K<br>RCR875DNP-122K<br>RCR875DNP-152K<br>RCR875DNP-182K | 102K<br>122K<br>152K<br>182K | 1.0 mH $\pm 10\%$<br>1.2 mH $\pm 10\%$<br>1.5 mH $\pm 10\%$<br>1.8 mH $\pm 10\%$                                     | 2.72<br>3.98<br>4.50<br>6.81             | 230<br>210<br>190<br>170            |
| RCR875DNP-222K<br>RCR875DNP-272K<br>RCR875DNP-332K<br>RCR875DNP-392K | 222K<br>272K<br>332K<br>392K | 2.2 mH $\pm 10\%$<br>2.7 mH $\pm 10\%$<br>3.3 mH $\pm 10\%$<br>3.9 mH $\pm 10\%$                                     | 7.56<br>8.54<br>9.74<br>12.9             | 160<br>140<br>130<br>120            |
| RCR875DNP-472K<br>RCR875DNP-562K<br>RCR875DNP-682K<br>RCR875DNP-822K | 472K<br>562K<br>682K<br>822K | 4.7 mH $\pm 10\%$<br>5.6 mH $\pm 10\%$<br>6.8 mH $\pm 10\%$<br>8.2 mH $\pm 10\%$                                     | 14.7<br>20.4<br>23.0<br>30.6             | 110<br>99<br>89<br>81               |
| RCR875DNP-103K                                                       | 103K                         | 10 mH $\pm 10\%$                                                                                                     | 35.0                                     | 74                                  |

※1: Inductance Measuring frequency: 100 $\mu\text{H} \sim 10 \text{ mH}$ (1kHz); 1.2 $\mu\text{H} \sim 82\mu\text{H}$ ( 2.52 MHz)

※2:Rated current: The DC current at which the inductance decreases 90% of it's initial value or when  $\Delta t=40^\circ\text{C}$ ,whichever is lower ( $T_a=20^\circ\text{C}$ ).

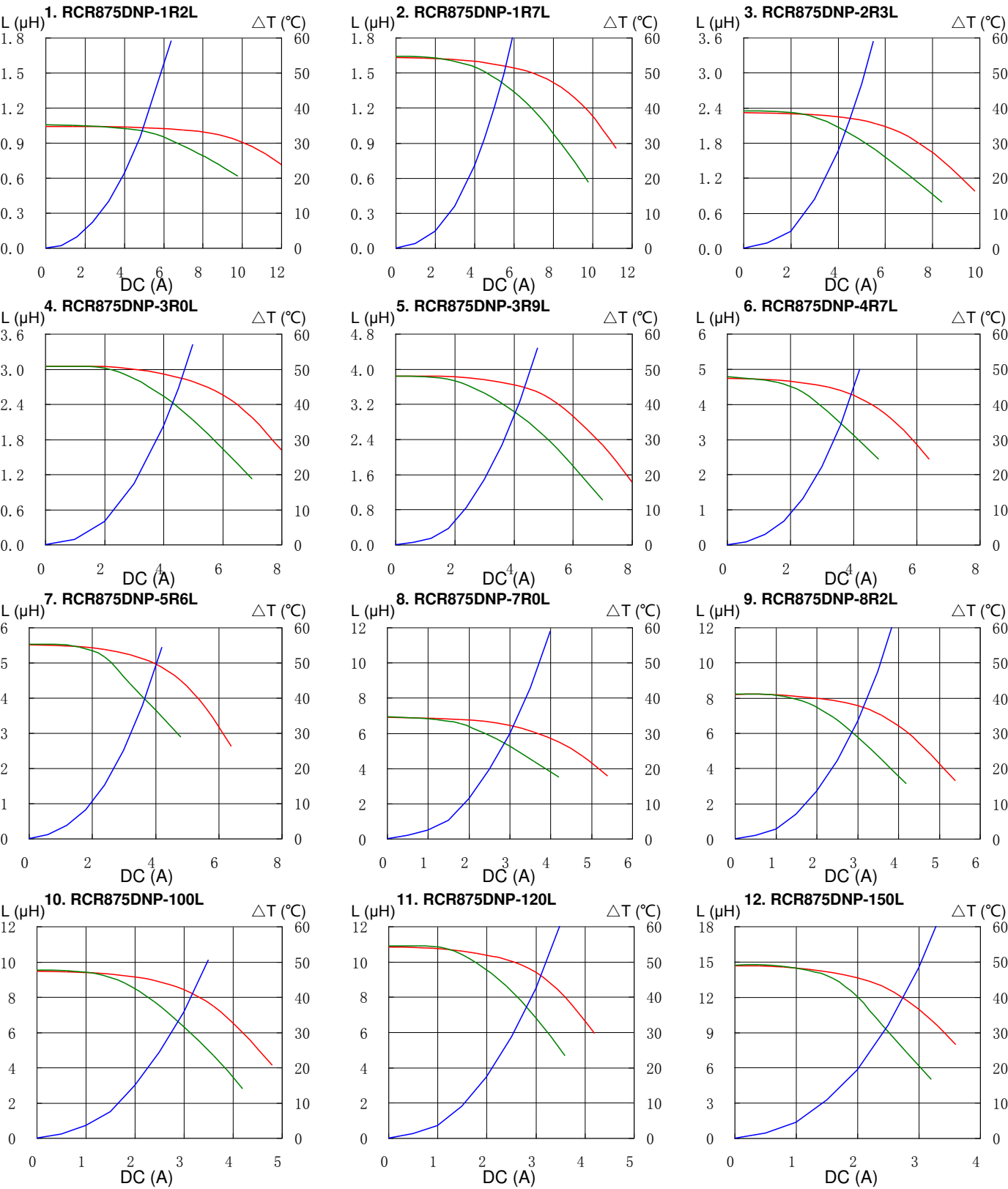
# PIN Power Inductor

## RCR-875D



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



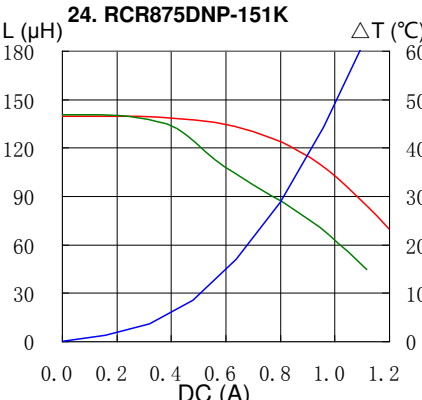
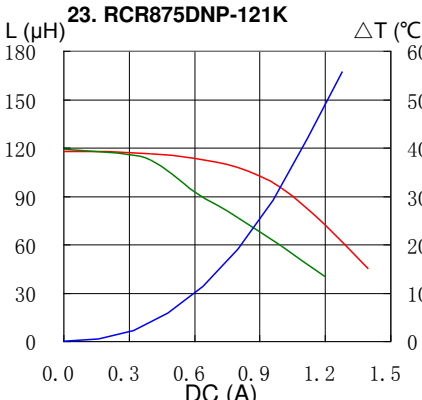
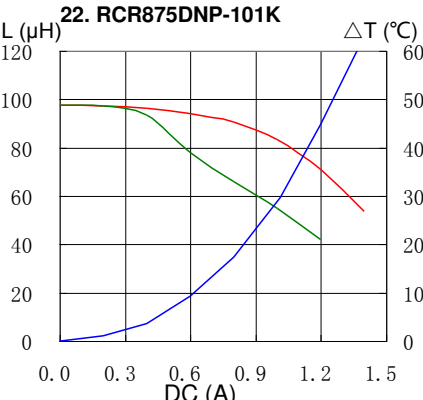
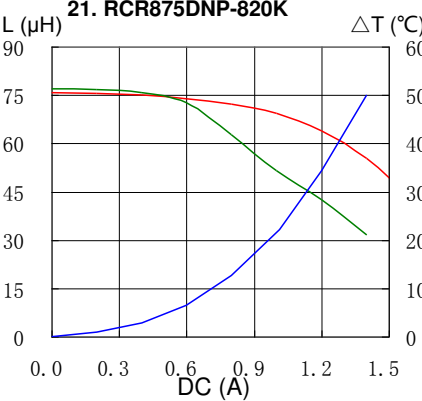
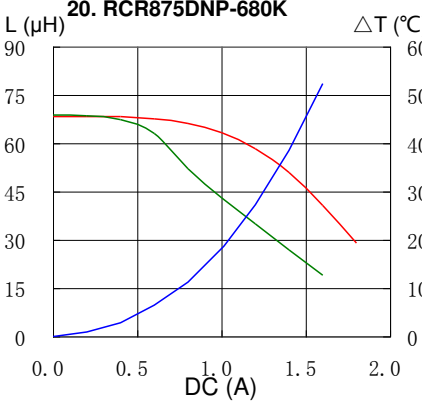
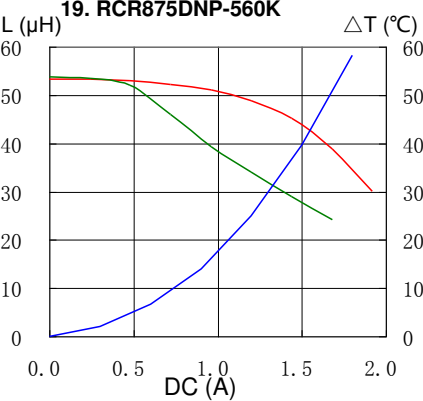
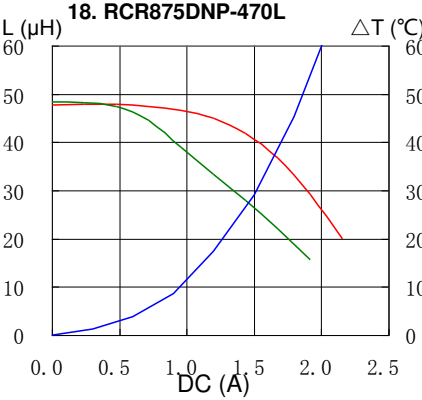
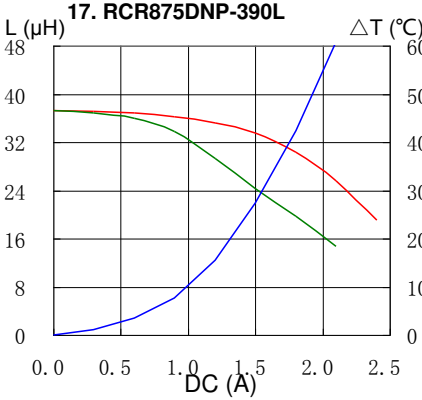
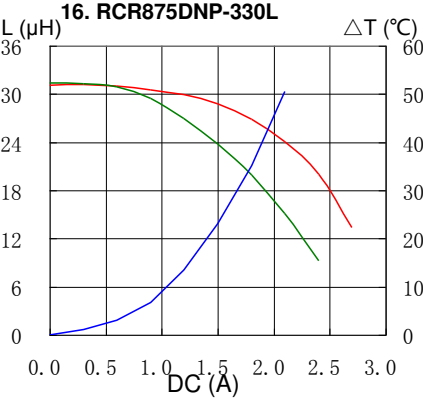
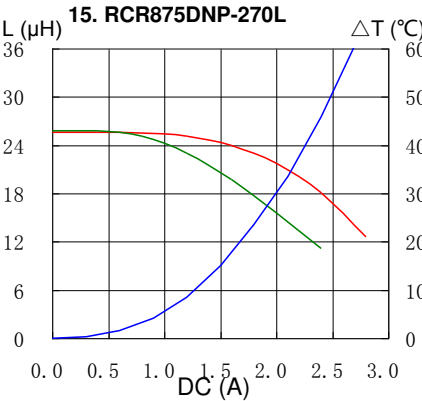
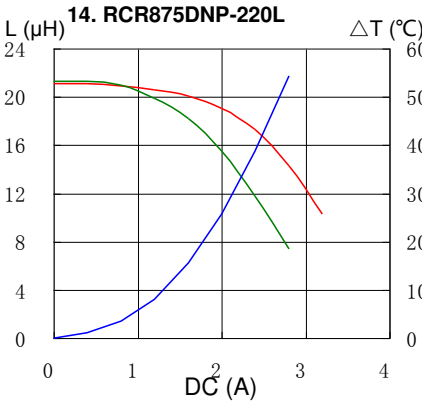
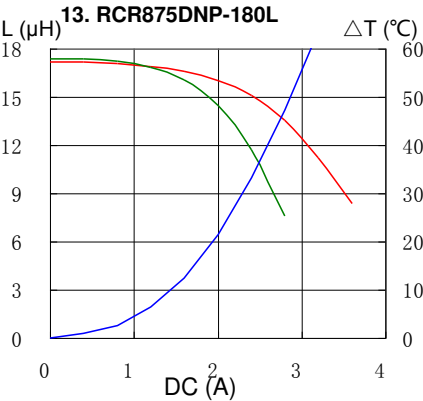
# PIN Power Inductor

## RCR-875D



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



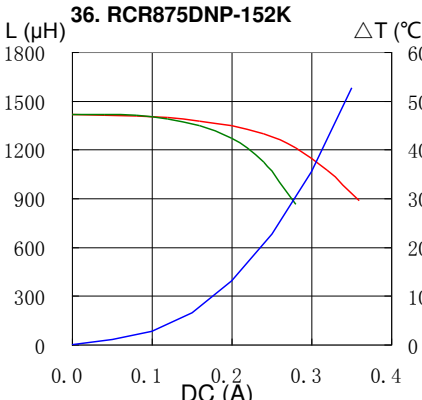
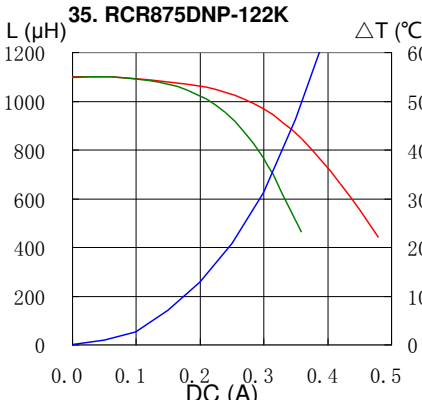
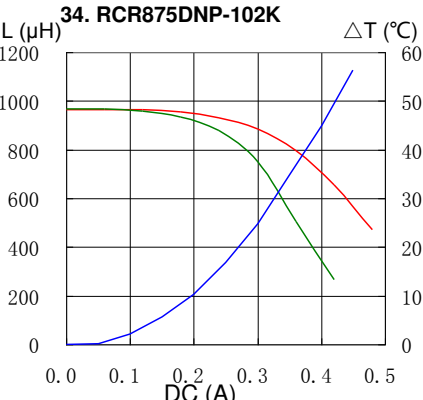
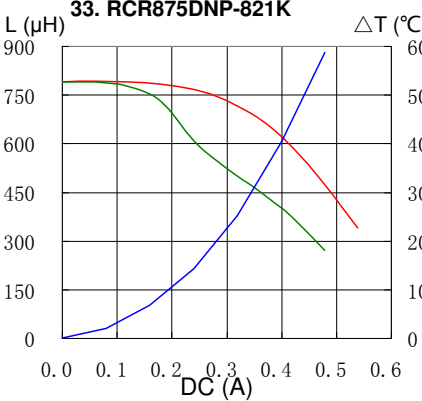
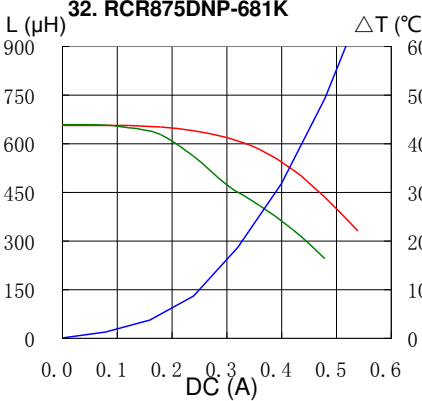
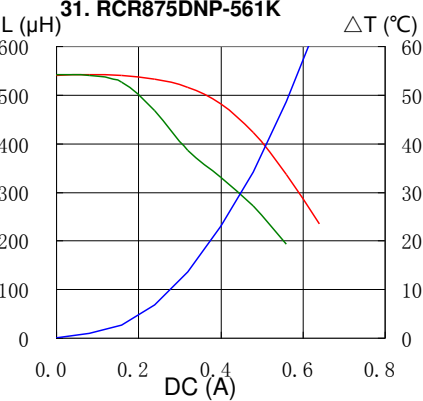
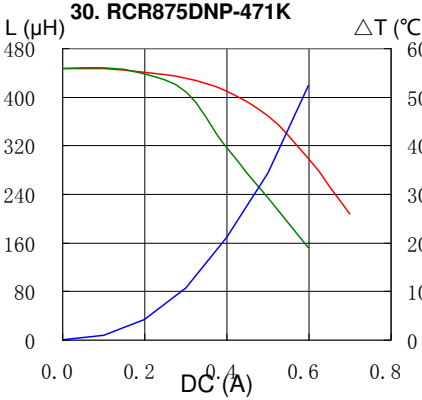
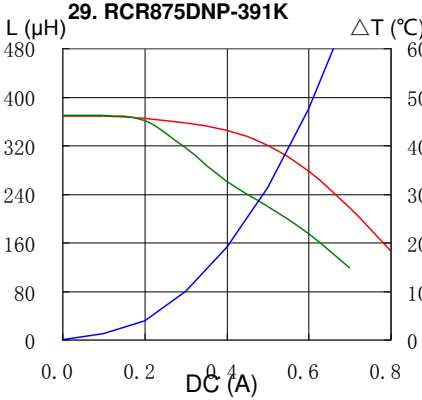
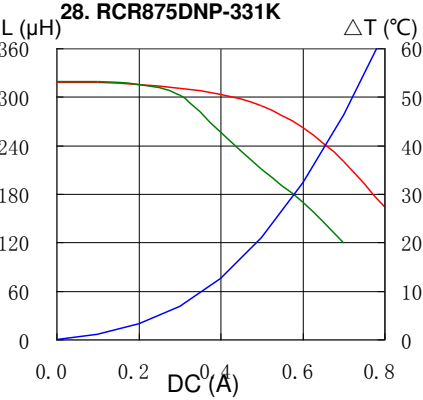
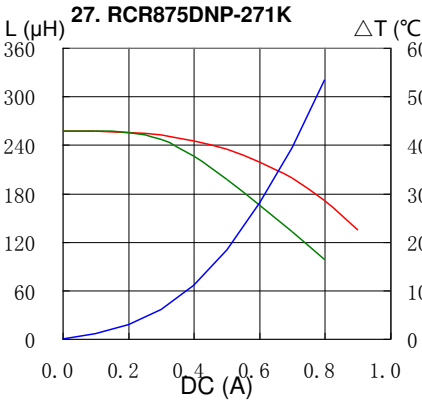
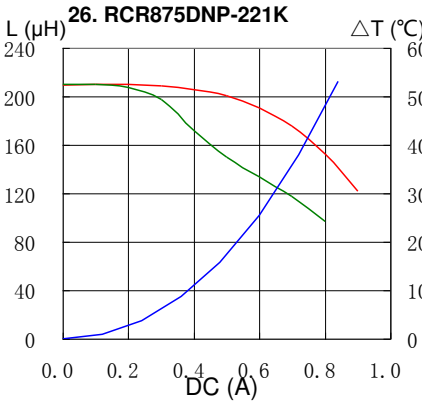
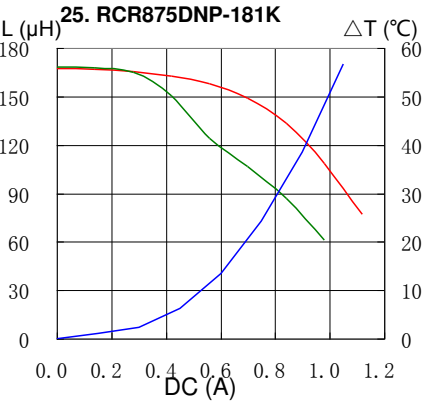
# PIN Power Inductor

## RCR-875D



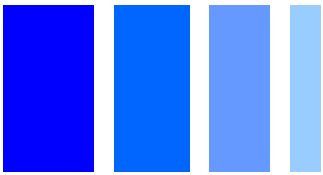
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



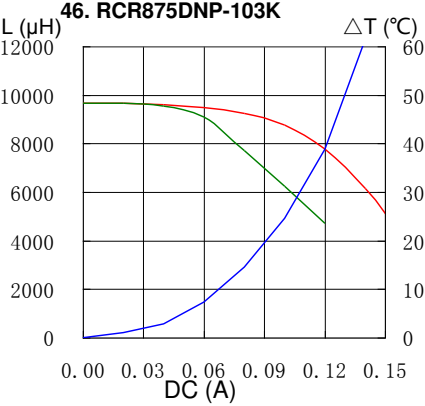
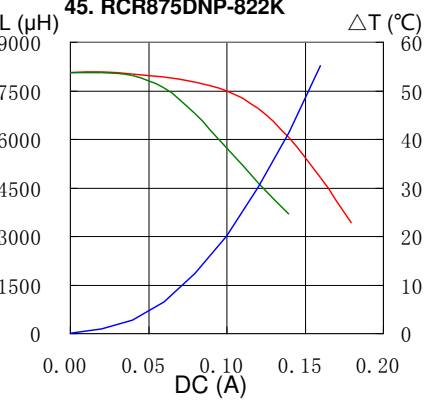
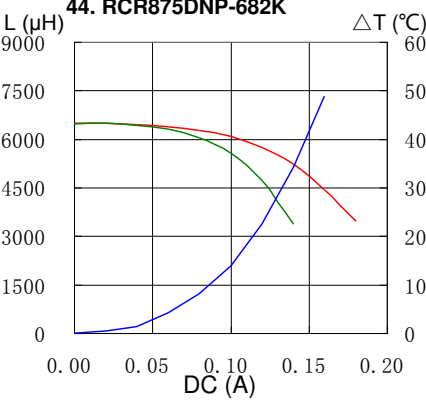
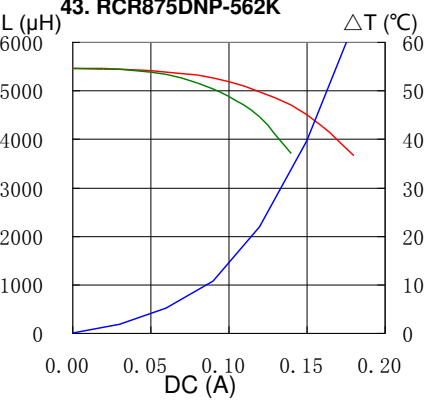
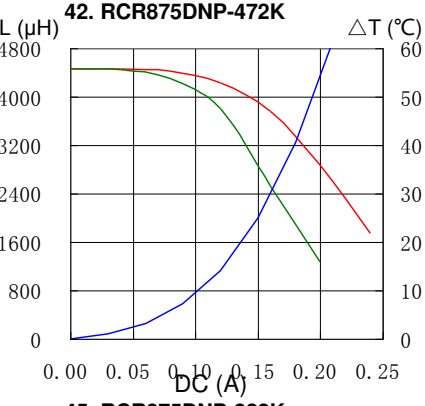
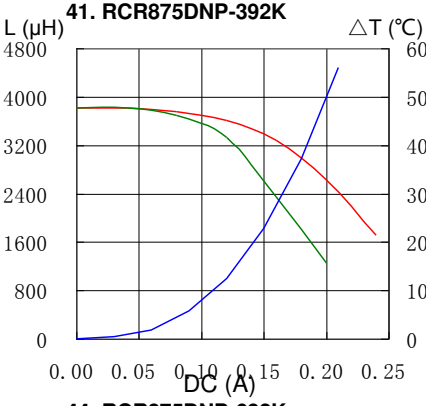
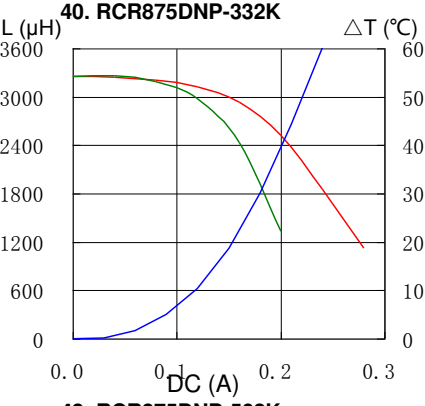
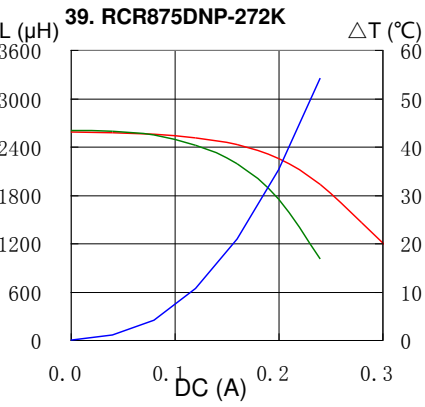
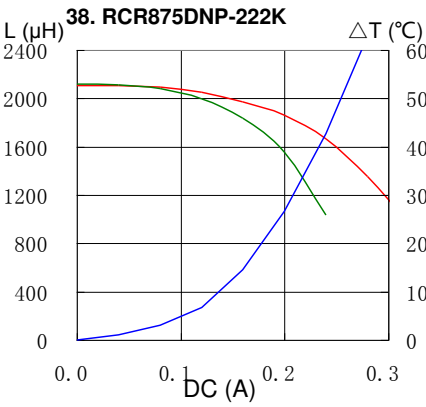
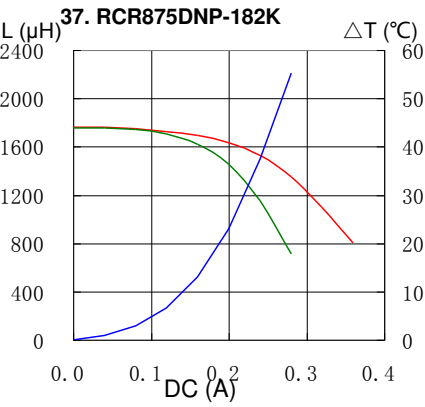
# PIN Power Inductor

## RCR-875D



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



# PIN Power Inductor RCR-875D



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