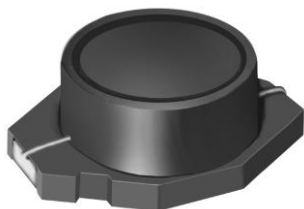
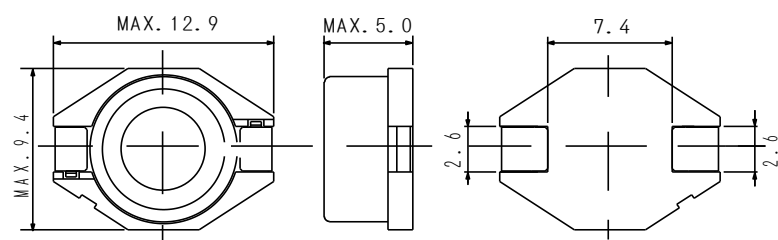


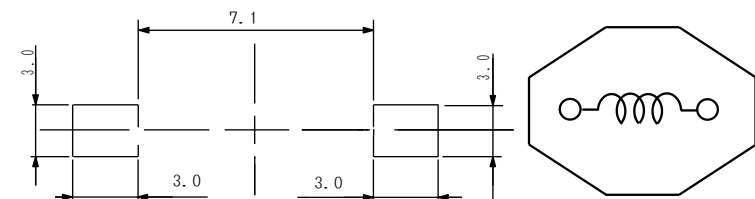
# SMD Power Inductor CDRR94



## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.9 × 9.4 × 5.0mm Max.
- Product weight: 0.85g(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
- Solder reflow temperature: 260 °C peak.

## Packaging

- Carrier tape and reel packaging.
- 13" diameter reel
- 500pcs per reel

## Applications

- Ideally used in Portable Computers, Video Recorder, DSC/DVC, etc as DC-DC Converter inductors.

# SMD Power Inductor

## CDRR94



### Electrical Characteristics

| Part Name      | Stamp | Inductance<br>( $\mu$ H)<br>[ within ] ※1 | D.C.R. (m $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Saturation Current<br>(A) ※2 | Temperature<br>Rise Current<br>(A) ※3 |
|----------------|-------|-------------------------------------------|--------------------------------------------------|------------------------------|---------------------------------------|
| CDRR94NP-1R0MC | 1R0   | $1.0 \pm 20\%$                            | 15.3(12.2)                                       | 10.8                         | 5.0                                   |
| CDRR94NP-1R5MC | 1R5   | $1.5 \pm 20\%$                            | 16.9(13.5)                                       | 9.6                          | 4.5                                   |
| CDRR94NP-2R2MC | 2R2   | $2.2 \pm 20\%$                            | 27.5(22.0)                                       | 7.2                          | 3.4                                   |
| CDRR94NP-3R3MC | 3R3   | $3.3 \pm 20\%$                            | 38.8(31.0)                                       | 6.2                          | 2.7                                   |
| CDRR94NP-4R7MC | 4R7   | $4.7 \pm 20\%$                            | 50.6(40.5)                                       | 5.4                          | 2.5                                   |
| CDRR94NP-6R8MC | 6R8   | $6.8 \pm 20\%$                            | 70.6(56.5)                                       | 4.4                          | 2.1                                   |
| CDRR94NP-100MC | 100   | $10 \pm 20\%$                             | 91.3(73.0)                                       | 3.0                          | 1.9                                   |
| CDRR94NP-120MC | 120   | $12 \pm 20\%$                             | 112.5(90)                                        | 3.2                          | 1.6                                   |
| CDRR94NP-150MC | 150   | $15 \pm 20\%$                             | 150.0(120)                                       | 2.8                          | 1.3                                   |
| CDRR94NP-180MC | 180   | $18 \pm 20\%$                             | 182.5(146)                                       | 2.6                          | 1.2                                   |
| CDRR94NP-220MC | 220   | $22 \pm 20\%$                             | 197.5(158)                                       | 2.4                          | 1.1                                   |
| CDRR94NP-270MC | 270   | $27 \pm 20\%$                             | 269.0(215)                                       | 2.1                          | 0.95                                  |
| CDRR94NP-330MC | 330   | $33 \pm 20\%$                             | 298.0(238)                                       | 1.9                          | 0.90                                  |
| CDRR94NP-390MC | 390   | $39 \pm 20\%$                             | 397.0(317)                                       | 1.7                          | 0.75                                  |
| CDRR94NP-470MC | 470   | $47 \pm 20\%$                             | 435.0(348)                                       | 1.6                          | 0.70                                  |
| CDRR94NP-680MC | 680   | $68 \pm 20\%$                             | 670.0(536)                                       | 1.3                          | 0.55                                  |
| CDRR94NP-820MC | 820   | $82 \pm 20\%$                             | 898.0(718)                                       | 1.2                          | 0.45                                  |
| CDRR94NP-101MC | 101   | $100 \pm 20\%$                            | 1063.0(850)                                      | 1.0                          | 0.40                                  |

※1. Inductance measuring condition: at 100 kHz.

※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  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

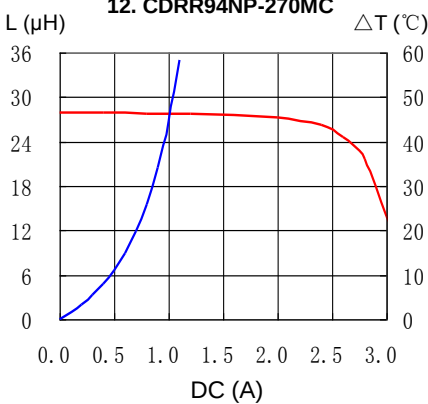
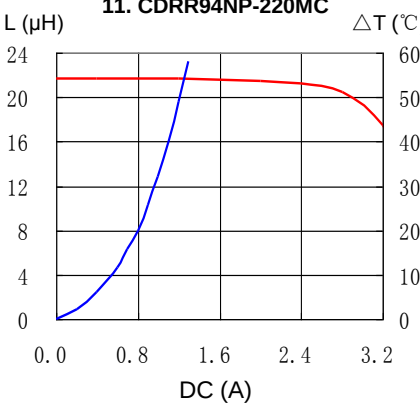
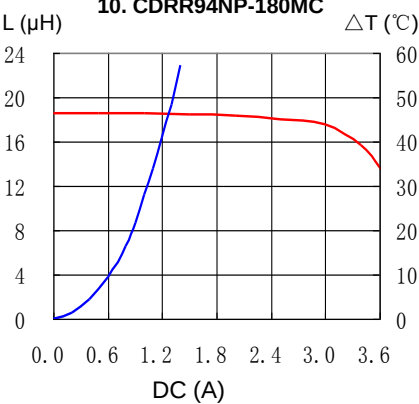
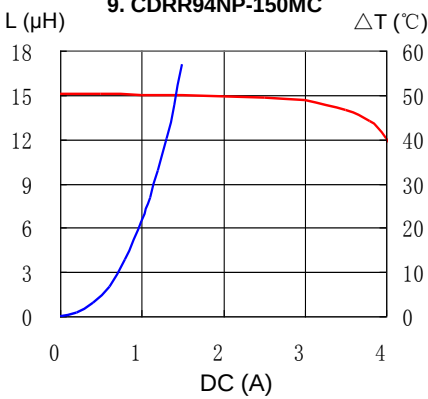
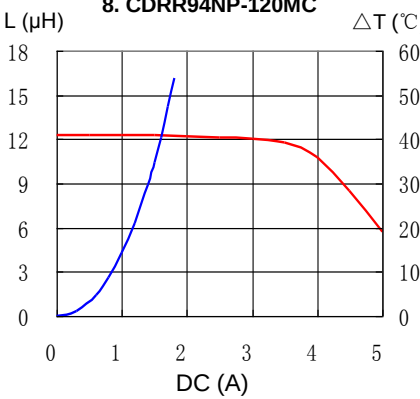
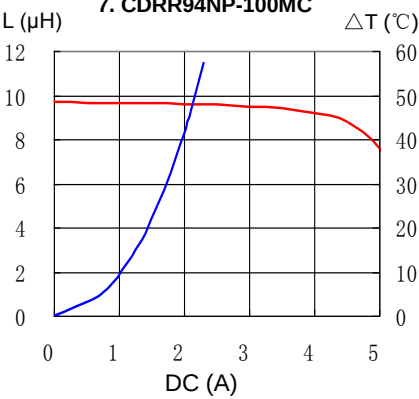
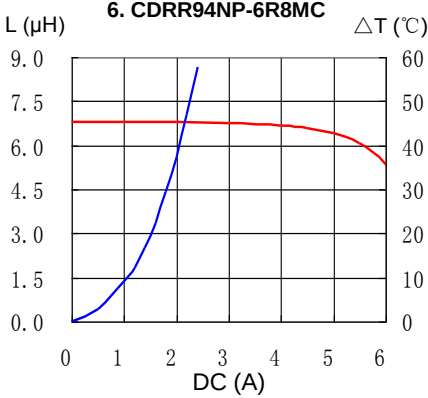
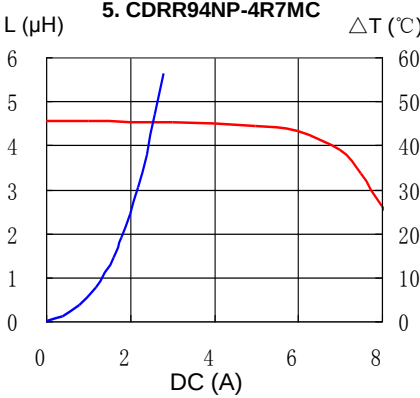
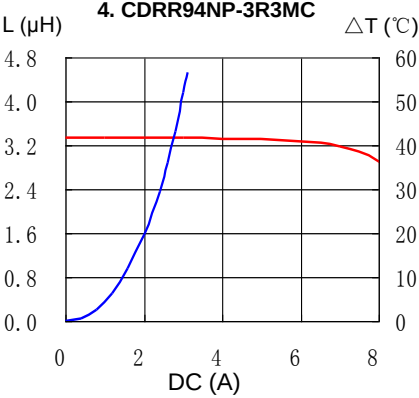
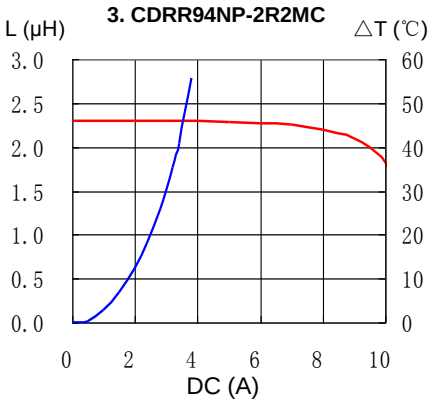
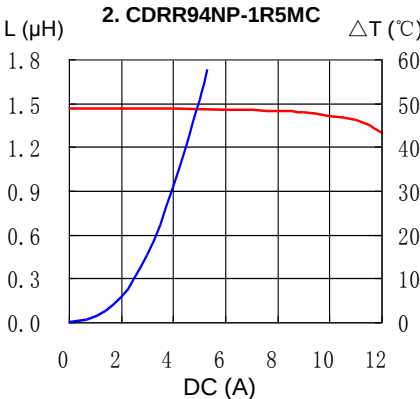
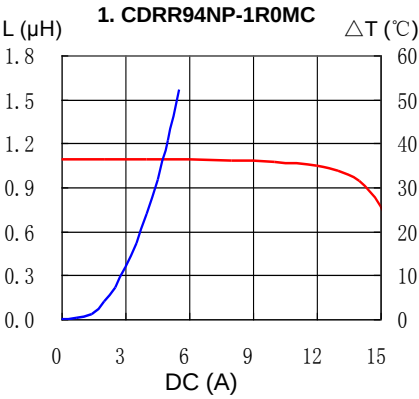
# SMD Power Inductor

## CDRR94



### Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$

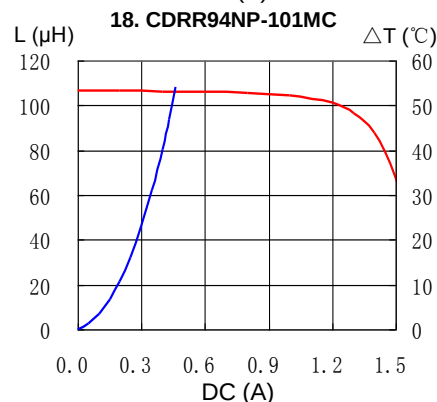
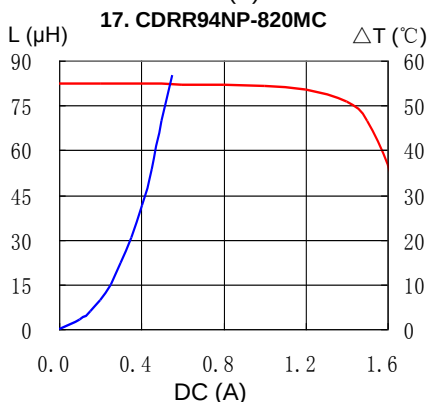
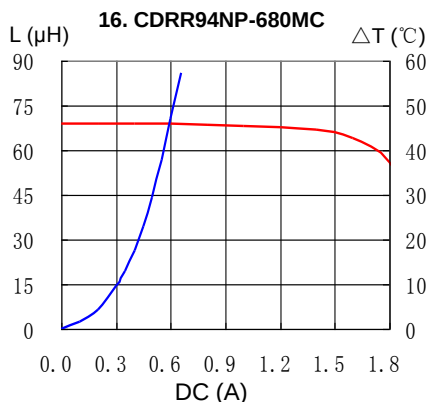
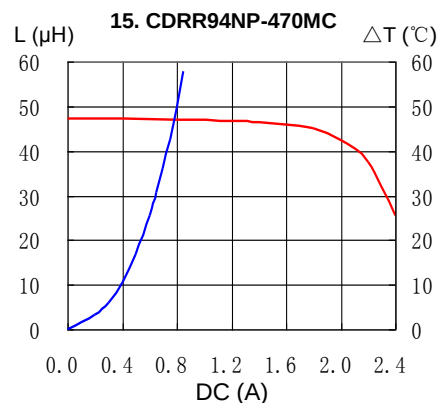
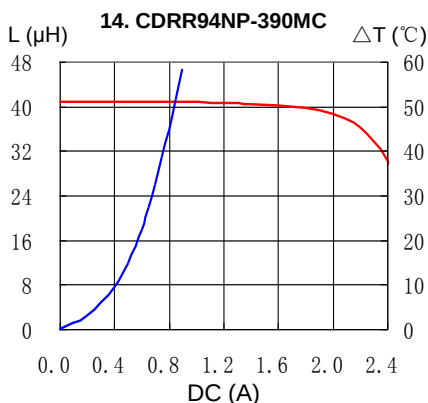
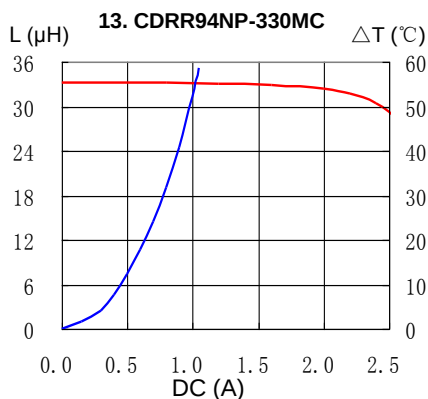


# SMD Power Inductor CDRR94



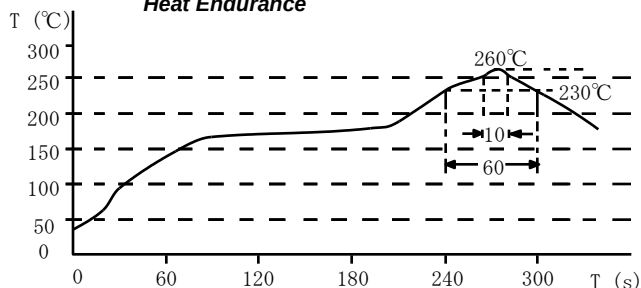
## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

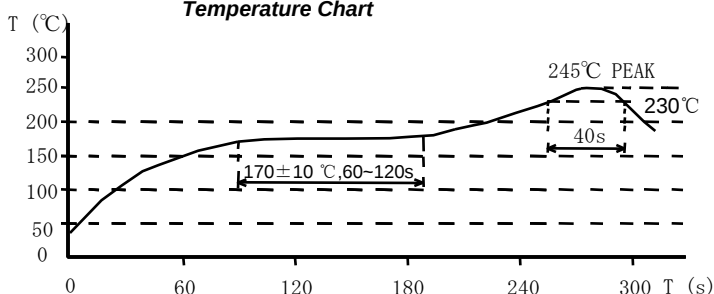


## Solder Reflow Condition

### Heat Endurance



### Temperature Chart



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)