



## Features

- Shielded construction
- Inductance range: 1.2 to 390  $\mu$ H
- Heating current up to 4.8 A
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRR4528A Series – Shielded Power Inductors

### Electrical Specifications @ 25 °C

| Bourns<br>Part Number | Inductance<br>@ 100 kHz / 0.1 V |        | SRF<br>(MHz)<br>Typ. | DCR<br>(m $\Omega$ ) |        | I rms (A)<br>Typ. | I sat (A)<br>Typ. |
|-----------------------|---------------------------------|--------|----------------------|----------------------|--------|-------------------|-------------------|
|                       | L ( $\mu$ H)                    | Tol. % |                      | Typ.                 | Max.   |                   |                   |
| SRR4528A-1R2Y         | 1.2                             | ± 30 % | 82.0                 | 12.3                 | 17.0   | 4.82              | 3.04              |
| SRR4528A-1R8Y         | 1.8                             | ± 30 % | 78.0                 | 14.3                 | 20.0   | 4.20              | 2.50              |
| SRR4528A-2R2Y         | 2.2                             | ± 30 % | 76.0                 | 17.4                 | 23.0   | 3.78              | 2.32              |
| SRR4528A-2R7Y         | 2.7                             | ± 30 % | 68.0                 | 19.1                 | 29.0   | 3.40              | 2.10              |
| SRR4528A-3R3Y         | 3.3                             | ± 30 % | 60.0                 | 25.6                 | 35.0   | 2.93              | 1.82              |
| SRR4528A-3R9Y         | 3.9                             | ± 30 % | 58.0                 | 28.2                 | 37.0   | 2.80              | 1.70              |
| SRR4528A-4R7Y         | 4.7                             | ± 30 % | 54.0                 | 29.8                 | 40.0   | 2.63              | 1.58              |
| SRR4528A-5R6Y         | 5.6                             | ± 30 % | 50.0                 | 34.9                 | 47.0   | 2.39              | 1.49              |
| SRR4528A-6R8Y         | 6.8                             | ± 30 % | 45.0                 | 43.2                 | 58.0   | 2.25              | 1.37              |
| SRR4528A-7R4Y         | 7.4                             | ± 30 % | 42.0                 | 46.7                 | 63.0   | 2.16              | 1.28              |
| SRR4528A-8R2Y         | 8.2                             | ± 30 % | 38.0                 | 51.5                 | 70.0   | 2.12              | 1.22              |
| SRR4528A-100M         | 10.0                            | ± 20 % | 35.0                 | 64.9                 | 88.0   | 1.76              | 1.13              |
| SRR4528A-120M         | 12.0                            | ± 20 % | 28.0                 | 74.2                 | 100.0  | 1.62              | 0.99              |
| SRR4528A-150M         | 15.0                            | ± 20 % | 24.0                 | 87.9                 | 119.0  | 1.42              | 0.90              |
| SRR4528A-180M         | 18.0                            | ± 20 % | 23.0                 | 104.0                | 136.0  | 1.28              | 0.85              |
| SRR4528A-220M         | 22.0                            | ± 20 % | 21.0                 | 138.0                | 179.0  | 1.10              | 0.72              |
| SRR4528A-270M         | 27.0                            | ± 20 % | 20.0                 | 152.0                | 197.0  | 1.06              | 0.68              |
| SRR4528A-330M         | 33.0                            | ± 20 % | 18.0                 | 184.0                | 239.0  | 0.95              | 0.59              |
| SRR4528A-390M         | 39.0                            | ± 20 % | 16.0                 | 218.0                | 272.0  | 0.90              | 0.57              |
| SRR4528A-470M         | 47.0                            | ± 20 % | 15.0                 | 240.0                | 300.0  | 0.86              | 0.52              |
| SRR4528A-560M         | 56.0                            | ± 20 % | 14.0                 | 278.0                | 348.0  | 0.81              | 0.45              |
| SRR4528A-680M         | 68.0                            | ± 20 % | 12.0                 | 361.0                | 452.0  | 0.70              | 0.41              |
| SRR4528A-820M         | 82.0                            | ± 20 % | 11.0                 | 442.0                | 552.0  | 0.59              | 0.39              |
| SRR4528A-101M         | 100.0                           | ± 20 % | 10.0                 | 487.0                | 609.0  | 0.56              | 0.34              |
| SRR4528A-121M         | 120.0                           | ± 20 % | 9.0                  | 547.0                | 700.0  | 0.53              | 0.30              |
| SRR4528A-151M         | 150.0                           | ± 20 % | 8.5                  | 724.0                | 905.0  | 0.48              | 0.29              |
| SRR4528A-181M         | 180.0                           | ± 20 % | 7.0                  | 903.0                | 1128.0 | 0.43              | 0.26              |
| SRR4528A-221M         | 220.0                           | ± 20 % | 6.0                  | 1184.0               | 1480.0 | 0.37              | 0.23              |
| SRR4528A-271M         | 270.0                           | ± 20 % | 5.0                  | 1290.0               | 1612.0 | 0.34              | 0.19              |
| SRR4528A-331M         | 330.0                           | ± 20 % | 4.5                  | 1730.0               | 2160.0 | 0.32              | 0.18              |
| SRR4528A-391M         | 390.0                           | ± 20 % | 4.0                  | 1910.0               | 2380.0 | 0.28              | 0.17              |

### General Specifications

Operating Temperature  
 ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature  
 ..... -40 °C to +125 °C  
 Temperature Rise ..... 40 °C typ.  
 at rated I<sub>rms</sub>  
 Inductance Drop ..... 35 % typ. at I<sub>sat</sub>  
 MSL ..... 1  
 ESD Classification (HBM)..... N/A

### Materials

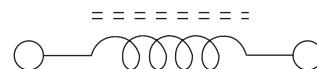
Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn  
 Packaging ..... 500 pcs. per 7-inch reel

### How to Order

**SRR4528A - 1R2Y**

Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

### Schematic



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**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

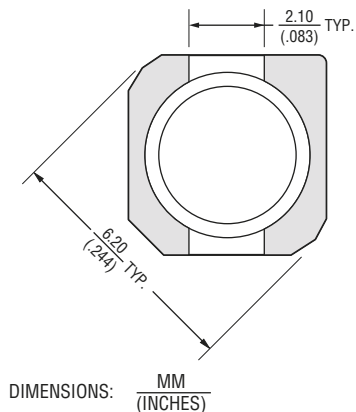
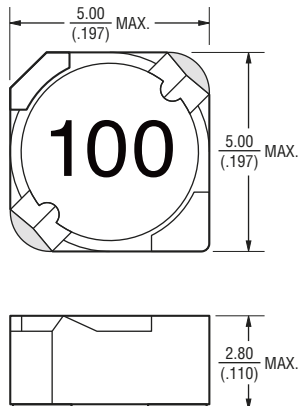
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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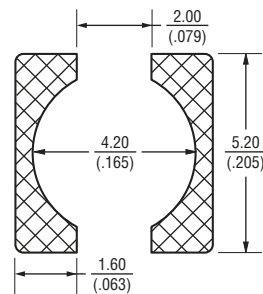
# SRR4528A Series – Shielded Power Inductors

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## Product Dimensions



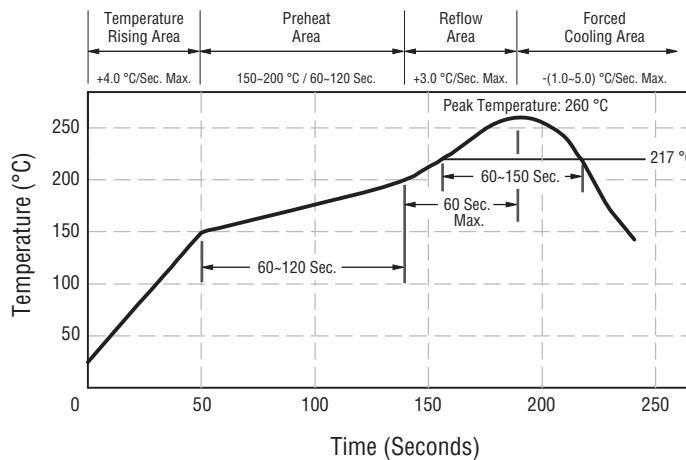
## Recommended Layout



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Soldering Profile

Peak Temperature: 260 °C max.  
Max. Peak Temperature -5 °C: 30 sec. max.  
Max. Time Above 217 °C: 60~150 sec. max.



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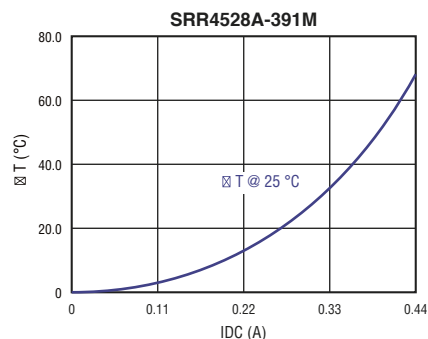
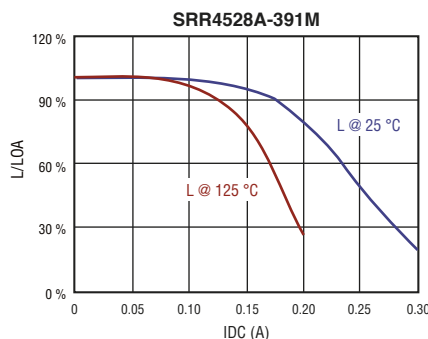
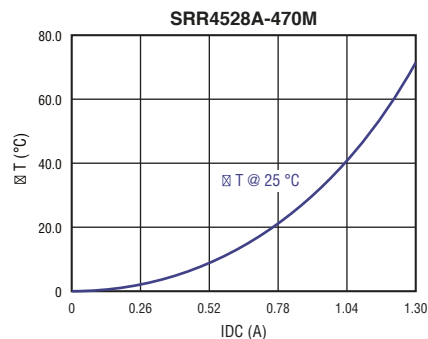
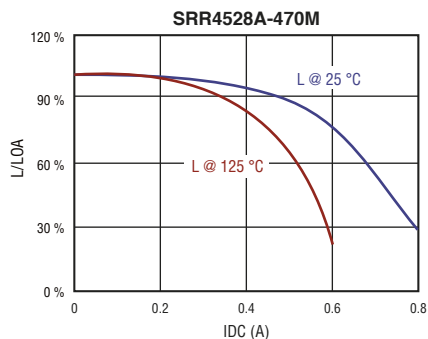
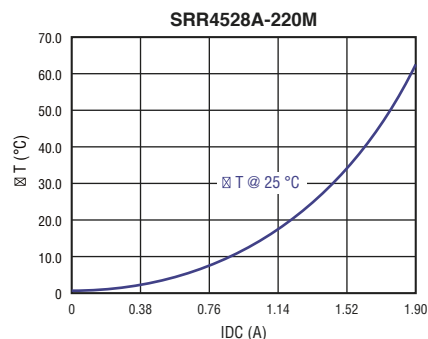
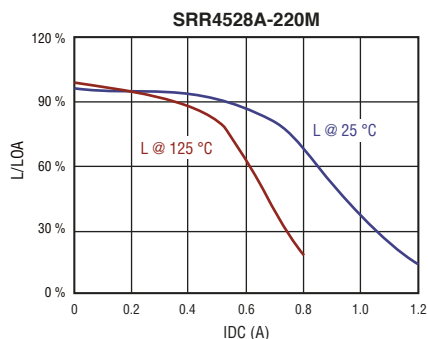
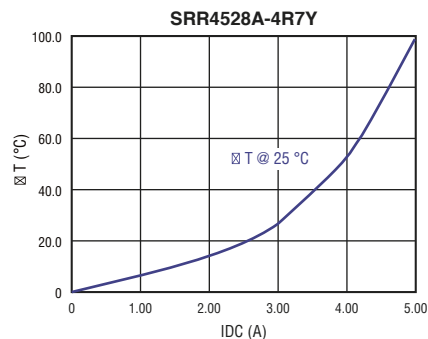
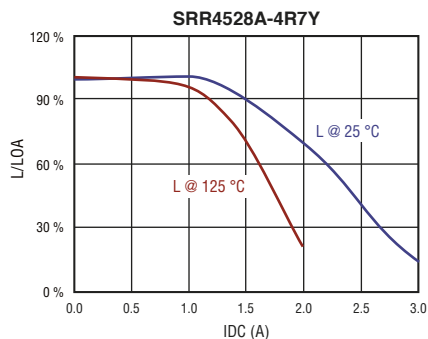
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# SRR4528A Series – Shielded Power Inductors

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## Inductance vs. Current and Temperature Rise vs. Current



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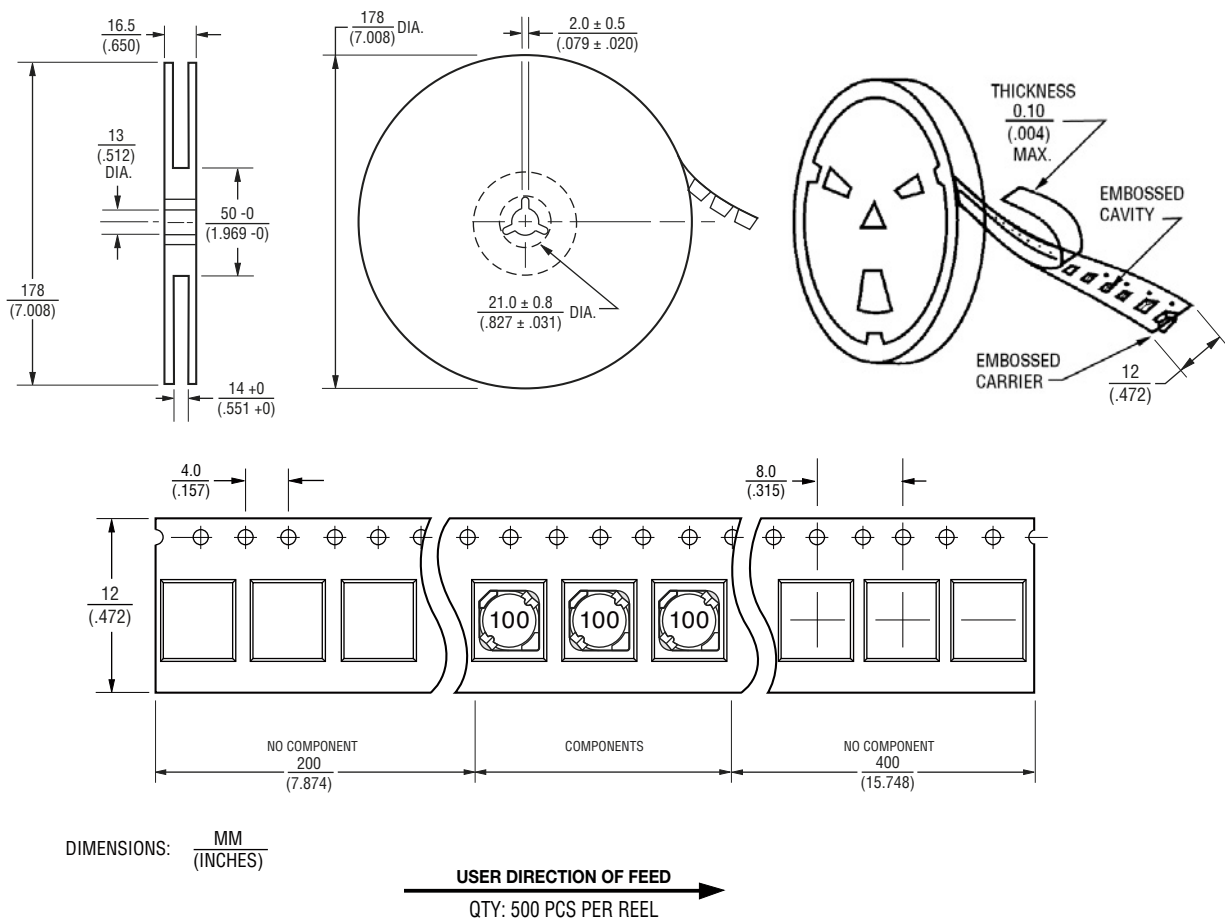
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# SRR4528A Series – Shielded Power Inductors

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## Packaging Specifications



REV. 06/18/18

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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