



## Features

- Shielded construction
- Inductance range: 1 to 1000  $\mu$ H
- Heating current up to 9.4 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## Applications

- Automotive systems:
  - Driver assistant
  - Information
  - Entertainment
  - Lighting
- DC/DC converters
- Power supplies

## SRR1260A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

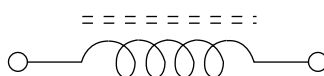
| Bourns Part Number | Inductance   |          |                        | Q (Ref.) | Test Freq. (MHz) | SRF (MHz) Typ. | DCR (m $\Omega$ ) Max. | I rms (A) | I sat (A) |
|--------------------|--------------|----------|------------------------|----------|------------------|----------------|------------------------|-----------|-----------|
|                    | L ( $\mu$ H) | Tol. (%) | Test Frequency/Voltage |          |                  |                |                        |           |           |
| SRR1260A-1R0Y      | 1.0          | $\pm 30$ | 100 KHz/0.1 V          | 26       | 7.96             | 100            | 7.8                    | 9.4       | 10.0      |
| SRR1260A-1R2Y      | 1.2          | $\pm 30$ | 100 KHz/0.1 V          | 18       | 7.96             | 91.1           | 8.0                    | 9.2       | 9.8       |
| SRR1260A-1R5Y      | 1.5          | $\pm 30$ | 100 KHz/0.1 V          | 24       | 7.96             | 86             | 9.5                    | 8.8       | 9.0       |
| SRR1260A-2R2Y      | 2.2          | $\pm 30$ | 100 KHz/0.1 V          | 22       | 7.96             | 70             | 10.5                   | 8.2       | 8.5       |
| SRR1260A-2R4Y      | 2.4          | $\pm 30$ | 100 KHz/0.1 V          | 18       | 7.96             | 63.8           | 11.5                   | 7.8       | 8.0       |
| SRR1260A-3R3Y      | 3.3          | $\pm 30$ | 100 KHz/0.1 V          | 20       | 7.96             | 40             | 12.0                   | 7.6       | 7.8       |
| SRR1260A-3R5Y      | 3.5          | $\pm 30$ | 100 KHz/0.1 V          | 22       | 7.96             | 37.6           | 13.0                   | 7.5       | 7.6       |
| SRR1260A-4R7Y      | 4.7          | $\pm 30$ | 100 KHz/0.1 V          | 19       | 7.96             | 36.7           | 15.5                   | 6.8       | 7.0       |
| SRR1260A-5R6Y      | 5.6          | $\pm 30$ | 100 KHz/0.1 V          | 19       | 7.96             | 33             | 16.2                   | 6.7       | 6.9       |
| SRR1260A-6R1Y      | 6.1          | $\pm 30$ | 100 KHz/0.1 V          | 21       | 7.96             | 29.8           | 17.0                   | 6.6       | 6.8       |
| SRR1260A-6R8Y      | 6.8          | $\pm 30$ | 100 KHz/0.1 V          | 20       | 7.96             | 28.2           | 18.0                   | 6.3       | 6.5       |
| SRR1260A-7R6Y      | 7.6          | $\pm 30$ | 100 KHz/0.1 V          | 16       | 7.96             | 27.9           | 19.0                   | 6.0       | 6.2       |
| SRR1260A-8R2Y      | 8.2          | $\pm 30$ | 100 KHz/0.1 V          | 18       | 7.96             | 24             | 19.5                   | 5.7       | 5.8       |
| SRR1260A-100M      | 10           | $\pm 20$ | 1 KHz/1 V              | 32       | 2.52             | 21             | 20.0                   | 5.5       | 5.5       |
| SRR1260A-120M      | 12           | $\pm 20$ | 1 KHz/1 V              | 27       | 2.52             | 19.4           | 23.0                   | 5.2       | 5.0       |
| SRR1260A-150M      | 15           | $\pm 20$ | 1 KHz/1 V              | 25       | 2.52             | 17.6           | 27.0                   | 5.0       | 4.6       |
| SRR1260A-180M      | 18           | $\pm 20$ | 1 KHz/1 V              | 28       | 2.52             | 15.5           | 36.0                   | 4.2       | 3.9       |
| SRR1260A-220M      | 22           | $\pm 20$ | 1 KHz/1 V              | 29       | 2.52             | 13.4           | 43.0                   | 4.0       | 3.7       |
| SRR1260A-270M      | 27           | $\pm 20$ | 1 KHz/1 V              | 26       | 2.52             | 12.7           | 45.0                   | 3.6       | 3.3       |
| SRR1260A-330M      | 33           | $\pm 20$ | 1 KHz/1 V              | 27       | 2.52             | 9.97           | 60.0                   | 3.0       | 2.8       |
| SRR1260A-390M      | 39           | $\pm 20$ | 1 KHz/1 V              | 22       | 2.52             | 10.4           | 70.0                   | 2.8       | 2.7       |
| SRR1260A-470M      | 47           | $\pm 20$ | 1 KHz/1 V              | 22       | 2.52             | 7.63           | 86.0                   | 2.6       | 2.5       |
| SRR1260A-560M      | 56           | $\pm 20$ | 1 KHz/1 V              | 24       | 2.52             | 7.92           | 100                    | 2.3       | 2.2       |
| SRR1260A-680M      | 68           | $\pm 20$ | 1 KHz/1 V              | 22       | 2.52             | 7.43           | 110                    | 2.1       | 2.1       |
| SRR1260A-820M      | 82           | $\pm 20$ | 1 KHz/1 V              | 25       | 2.52             | 6.85           | 145                    | 1.95      | 1.9       |
| SRR1260A-101M      | 100          | $\pm 20$ | 1 KHz/1 V              | 26       | 0.796            | 6.07           | 180                    | 1.7       | 1.7       |
| SRR1260A-121K      | 120          | $\pm 10$ | 1 KHz/1 V              | 26       | 0.796            | 5.5            | 210                    | 1.65      | 1.65      |
| SRR1260A-151K      | 150          | $\pm 10$ | 1 KHz/1 V              | 20       | 0.796            | 5              | 260                    | 1.55      | 1.55      |
| SRR1260A-181K      | 180          | $\pm 10$ | 1 KHz/1 V              | 26       | 0.796            | 4.5            | 320                    | 1.4       | 1.4       |
| SRR1260A-221K      | 220          | $\pm 10$ | 1 KHz/1 V              | 22       | 0.796            | 4.2            | 380                    | 1.38      | 1.3       |
| SRR1260A-271K      | 270          | $\pm 10$ | 1 KHz/1 V              | 20       | 0.796            | 3.6            | 450                    | 1.3       | 1.2       |
| SRR1260A-331K      | 330          | $\pm 10$ | 1 KHz/1 V              | 22       | 0.796            | 3.2            | 580                    | 1.15      | 1.1       |
| SRR1260A-391K      | 390          | $\pm 10$ | 1 KHz/1 V              | 20       | 0.796            | 2.8            | 700                    | 1.08      | 1.0       |
| SRR1260A-471K      | 470          | $\pm 10$ | 1 KHz/1 V              | 18       | 0.796            | 2.6            | 820                    | 0.95      | 0.9       |
| SRR1260A-561K      | 560          | $\pm 10$ | 1 KHz/1 V              | 22       | 0.796            | 2.4            | 1000                   | 0.88      | 0.8       |
| SRR1260A-681K      | 680          | $\pm 10$ | 1 KHz/1 V              | 18       | 0.796            | 2.2            | 1150                   | 0.8       | 0.75      |
| SRR1260A-821K      | 820          | $\pm 10$ | 1 KHz/1 V              | 20       | 0.796            | 2              | 1500                   | 0.73      | 0.63      |
| SRR1260A-102K      | 1000         | $\pm 10$ | 1 KHz/1 V              | 30       | 0.252            | 1.8            | 1700                   | 0.68      | 0.6       |

### How to Order

**SRR1260A - 100M**

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

### Electrical Schematic



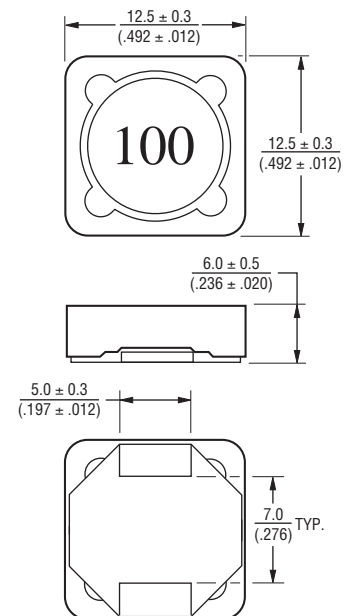
### General Specifications

Operating Temperature ..... -40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature ..... -40 °C to +125 °C  
Resistance to Soldering Heat ..... +245 °C for 10 sec.  
Temperature Rise ..... 40 °C typ. at rated I rms  
Inductance Drop ..... 25 % typ. at I sat

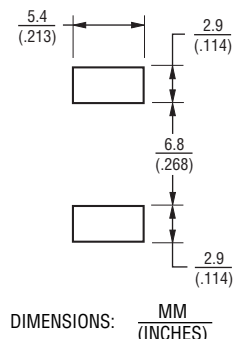
### Materials

Core ..... Ferrite  
Wire ..... Enamelled copper  
Terminal Finish ..... Sn  
Packaging ..... 600 pcs. per reel

### Product Dimensions



### Recommended Layout



\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\* Bourns follows the prevailing definition of "halogen free" in the industry. 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.

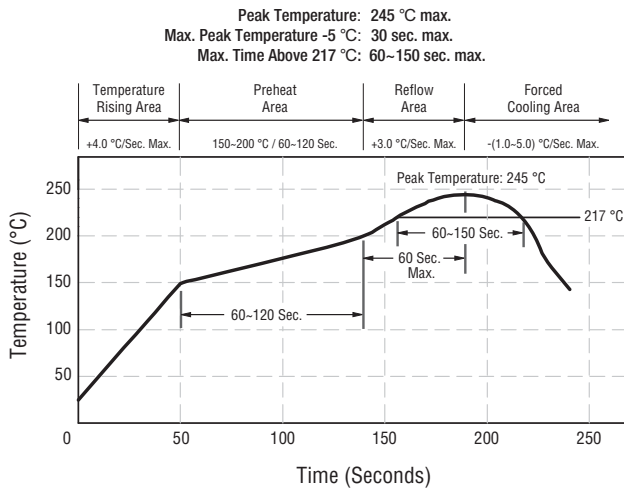
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

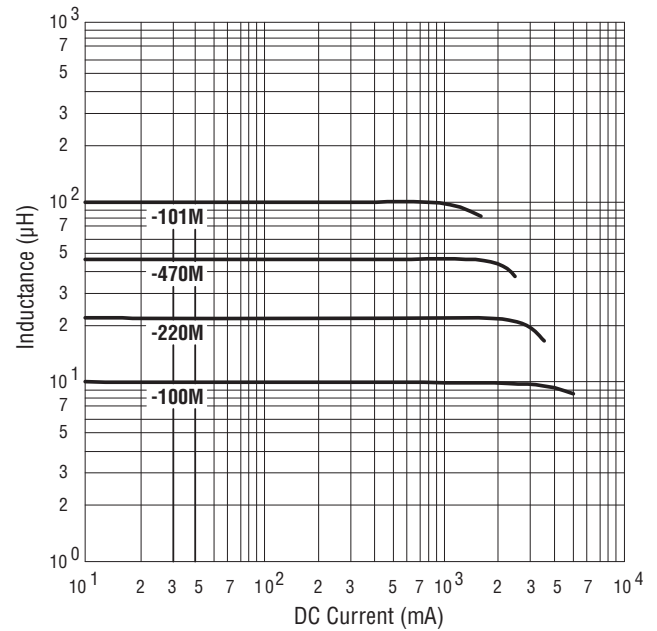
# SRR1260A Series - Shielded Power Inductors

**BOURNS®**

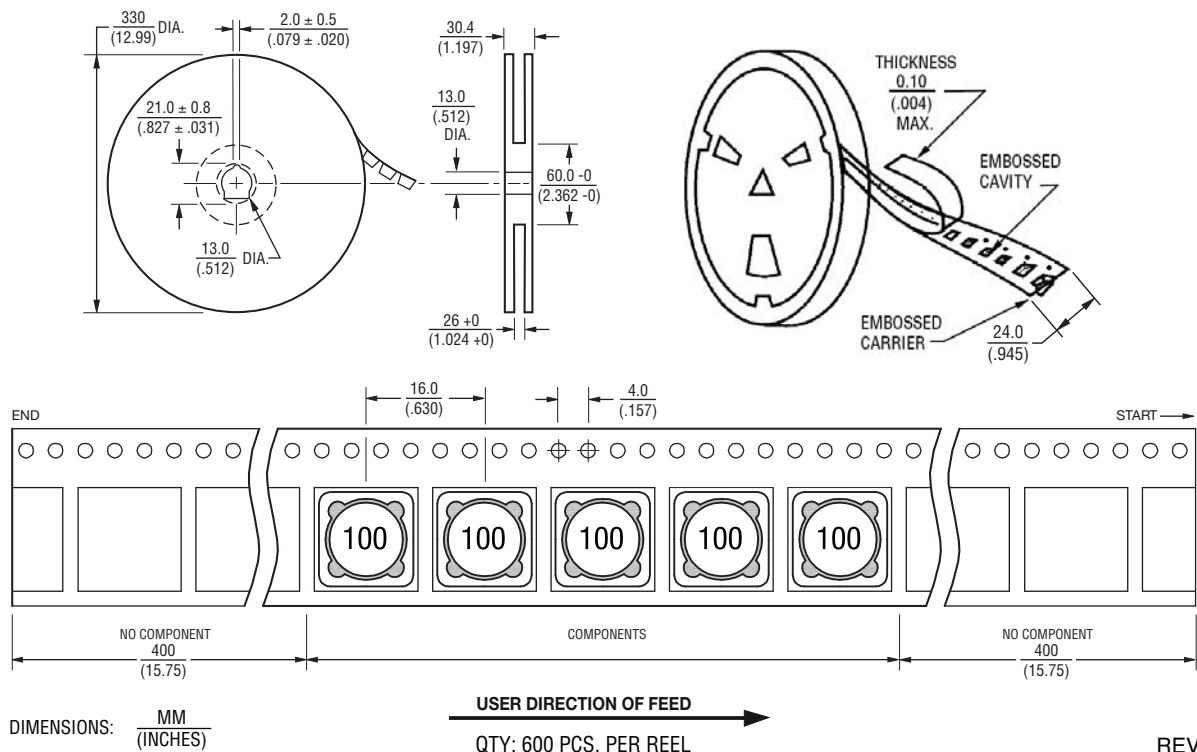
## Soldering Profile



## Inductance vs. DC Current Plot



## Packaging Specifications



REV. 11/14

Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
 Users should verify actual device performance in their specific applications.

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|                                      |                                      |                                      |                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <a href="#"><u>SRR1260A-8R2Y</u></a> | <a href="#"><u>SRR1260A-101M</u></a> | <a href="#"><u>SRR1260A-330M</u></a> | <a href="#"><u>SRR1260A-181K</u></a> | <a href="#"><u>SRR1260A-271K</u></a> | <a href="#"><u>SRR1260A-471K</u></a> |
| <a href="#"><u>SRR1260A-1R0Y</u></a> | <a href="#"><u>SRR1260A-5R6Y</u></a> | <a href="#"><u>SRR1260A-6R1Y</u></a> | <a href="#"><u>SRR1260A-390M</u></a> | <a href="#"><u>SRR1260A-121K</u></a> | <a href="#"><u>SRR1260A-102K</u></a> |
| <a href="#"><u>SRR1260A-221K</u></a> | <a href="#"><u>SRR1260A-2R2Y</u></a> | <a href="#"><u>SRR1260A-3R5Y</u></a> | <a href="#"><u>SRR1260A-120M</u></a> | <a href="#"><u>SRR1260A-270M</u></a> | <a href="#"><u>SRR1260A-100M</u></a> |
| <a href="#"><u>SRR1260A-680M</u></a> | <a href="#"><u>SRR1260A-331K</u></a> | <a href="#"><u>SRR1260A-3R3Y</u></a> | <a href="#"><u>SRR1260A-820M</u></a> | <a href="#"><u>SRR1260A-1R5Y</u></a> | <a href="#"><u>SRR1260A-7R6Y</u></a> |
| <a href="#"><u>SRR1260A-470M</u></a> | <a href="#"><u>SRR1260A-220M</u></a> | <a href="#"><u>SRR1260A-821K</u></a> | <a href="#"><u>SRR1260A-180M</u></a> | <a href="#"><u>SRR1260A-2R4Y</u></a> | <a href="#"><u>SRR1260A-6R8Y</u></a> |
| <a href="#"><u>SRR1260A-1R2Y</u></a> | <a href="#"><u>SRR1260A-4R7Y</u></a> | <a href="#"><u>SRR1260A-681K</u></a> | <a href="#"><u>SRR1260A-391K</u></a> | <a href="#"><u>SRR1260A-560M</u></a> | <a href="#"><u>SRR1260A-151K</u></a> |
| <a href="#"><u>SRR1260A-150M</u></a> | <a href="#"><u>SRR1260A-561K</u></a> |                                      |                                      |                                      |                                      |