

#### **Features**

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000 µH
- Heating current up to 17.6 A
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## **Applications**

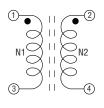
- DC/DC converters
- Power supplies
- SEPIC DC/DC converters

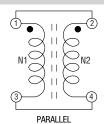
# SRF1260A Series - Dual-Winding Shielded Power Inductors

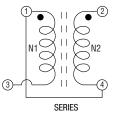
#### Electrical Specifications @ 25 °C

|                    | Parallel Rating                              |             |                    |             |             | Series Rating                                |             |                    |             |             |
|--------------------|--|-------------|--------------------|-------------|-------------|--|-------------|--------------------|-------------|-------------|
| Bourns<br>Part No. | Inductance<br>@ 100 KHz/<br>0.25 V<br>L (μH) | Tol.<br>(%) | DCR<br>(Ω)<br>Max. | Irms<br>(A) | Isat<br>(A) | Inductance<br>@ 100 KHz/<br>0.25 V<br>L (μH) | Tol.<br>(%) | DCR<br>(Ω)<br>Max. | Irms<br>(A) | Isat<br>(A) |
| SRF1260A-R47Y      | 0.47   | ±30         | 0.0053             | 17.6        | 33          | 1.88   | ±30         | 0.0212             | 8.8         | 16.5        |
| SRF1260A-1R0Y      | 1.0  | ±30         | 0.0062             | 15          | 23.6        | 4  | ±30         | 0.026              | 7.51        | 11.8        |
| SRF1260A-1R5Y      | 1.5  | ±30         | 0.0073             | 13.8        | 18.3        | 6  | ±30         | 0.0302             | 6.89        | 9.15        |
| SRF1260A-2R2Y      | 2.2  | ±30         | 0.0085             | 10.9        | 15          | 8.8  | ±30         | 0.0333             | 5.46        | 7.5         |
| SRF1260A-3R3Y      | 3.3  | ±30         | 0.0101             | 9.26        | 12.7        | 13.2   | ±30         | 0.0372             | 4.63        | 6.35        |
| SRF1260A-4R7Y      | 4.7  | ±30         | 0.0137             | 7.18        | 9.71        | 18.8   | ±30         | 0.0479             | 3.59        | 4.86        |
| SRF1260A-6R8Y      | 6.8  | ±30         | 0.0186             | 6.64        | 8.68        | 27.2   | ±30         | 0.0672             | 3.32        | 4.34        |
| SRF1260A-8R2Y      | 8.2  | ±30         | 0.0194             | 5.54        | 7.86        | 32.8   | ±30         | 0.0737             | 2.77        | 3.93        |
| SRF1260A-100M      | 10   | ±20         | 0.0246             | 5.35        | 7.17        | 40   | ±20         | 0.0934             | 2.67        | 3.59        |
| SRF1260A-150M      | 15   | ±20         | 0.0329             | 4.27        | 5.69        | 60   | ±20         | 0.125              | 2.13        | 2.85        |
| SRF1260A-220M      | 22   | ±20         | 0.0451             | 3.7         | 4.71        | 88   | ±20         | 0.172              | 1.84        | 2.36        |
| SRF1260A-330M      | 33   | ±20         | 0.0618             | 3.28        | 3.84        | 132  | ±20         | 0.256              | 1.64        | 1.92        |
| SRF1260A-470M      | 47   | ±20         | 0.086              | 2.71        | 3.24        | 188  | ±20         | 0.34               | 1.35        | 1.62        |
| SRF1260A-680M      | 68   | ±20         | 0.117              | 2.22        | 2.7         | 272  | ±20         | 0.444              | 1.11        | 1.35        |
| SRF1260A-820M      | 82   | ±20         | 0.15               | 2.05        | 2.39        | 328  | ±20         | 0.568              | 1.03        | 1.2         |
| SRF1260A-101M      | 100  | ±20         | 0.171              | 1.78        | 2.2         | 400  | ±20         | 0.656              | 0.892       | 1.1         |
| SRF1260A-151M      | 150  | ±20         | 0.254              | 1.48        | 1.81        | 600  | ±20         | 0.972              | 0.739       | 0.905       |
| SRF1260A-221M      | 220  | ±20         | 0.354              | 1.19        | 1.51        | 880  | ±20         | 1.416              | 0.594       | 0.755       |
| SRF1260A-331M      | 330  | ±20         | 0.574              | 1.06        | 1.22        | 1320   | ±20         | 2.29               | 0.53        | 0.61        |
| SRF1260A-471M      | 470  | ±20         | 0.83               | 0.87        | 1.02        | 1880   | ±20         | 3.197              | 0.434       | 0.51        |
| SRF1260A-681M      | 680  | ±20         | 1.212              | 0.7         | 0.85        | 2720   | ±20         | 4.635              | 0.35        | 0.425       |
| SRF1260A-821M      | 820  | ±20         | 1.46               | 0.6         | 0.77        | 3280   | ±20         | 5.363              | 0.301       | 0.385       |
| SRF1260A-102M      | 1000   | ±20         | 1.854              | 0.57        | 0.7         | 4000   | ±20         | 6.782              | 0.283       | 0.35        |

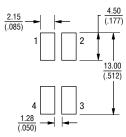
#### **Electrical Schematics**

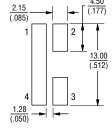






#### **Recommended Layout**





DIMENSIONS: (INCHES)

**DUAL INDUCTOR MODE SERIES MODE** 

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

## **General Specifications**

Operating Temperature .....-40 °C to +125 °C

(Temperature rise included)

Storage Temperature

.....-40 °C to +125 °C

Temperature Rise

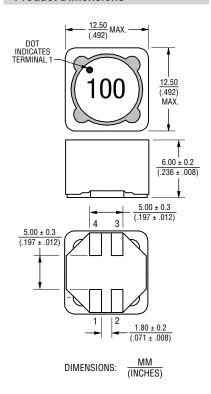
.....40 °C typ. at rated I rms Inductance Drop ......... 30 % typ. at I sat Hi-pot (N1-N2) ......500 Vac/60 Hz, 3 mA, 1 sec

Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

#### **Materials**

Core.....Ferrite Wire ......Enameled copper Terminal Finish ......Sn Packaging......400 pcs. per reel

#### **Product Dimensions**



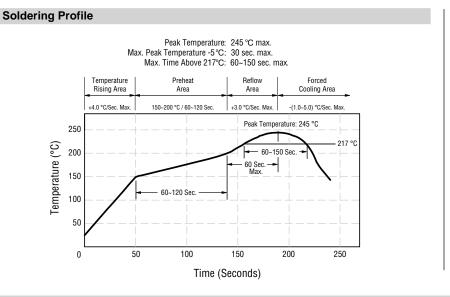


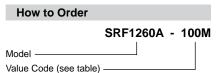
#### WARNING **Cancer and Reproductive Harm** www.P65Warnings.ca.gov

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

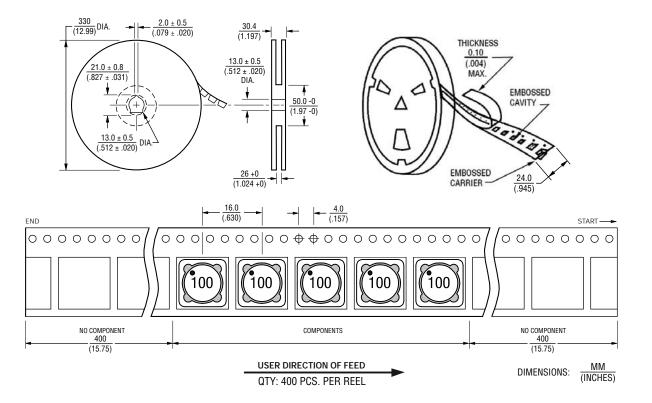
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

# SRF1260A Series - Dual-Winding Shielded Power Inductors





### **Packaging Specifications**



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