

\*RoHS COMPLIANT



**BOURNS®**

**Features**

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000  $\mu$ H
- Rated current up to 17.6 A
- RoHS compliant\*

**Applications**

- SEPIC topology
- Power supplies for:
  - Communication equipment
  - Notebooks, desktop computers, servers
  - LCDs, flat panels, backlights
  - Camcorders, HDTVs, car audio systems

**SRF1260 Series - Dual-Winding Shielded Power Inductors**

**Electrical Specifications @ 25 °C**

| Bourns Part No. | Parallel Rating                   |          |                       |                      |          | Series Rating                     |          |                       |                      |          |
|-----------------|-----------------------------------|----------|-----------------------|----------------------|----------|-----------------------------------|----------|-----------------------|----------------------|----------|
|                 | Inductance @ 100 KHz L ( $\mu$ H) | Tol. (%) | DCR ( $\Omega$ ) Max. | I <sub>rms</sub> (A) | Isat (A) | Inductance @ 100 KHz L ( $\mu$ H) | Tol. (%) | DCR ( $\Omega$ ) Max. | I <sub>rms</sub> (A) | Isat (A) |
| SRF1260-R47Y    | 0.47                              | ±30      | 0.0053                | 17.6                 | 33       | 1.88                              | ±30      | 0.0212                | 8.8                  | 16.5     |
| SRF1260-1R0Y    | 1.0                               | ±30      | 0.0062                | 15                   | 23.6     | 4                                 | ±30      | 0.026                 | 7.51                 | 11.8     |
| SRF1260-1R5Y    | 1.5                               | ±30      | 0.0073                | 13.8                 | 18.3     | 6                                 | ±30      | 0.0302                | 6.89                 | 9.15     |
| SRF1260-2R2Y    | 2.2                               | ±30      | 0.0085                | 10.9                 | 15       | 8.8                               | ±30      | 0.0333                | 5.46                 | 7.5      |
| SRF1260-3R3Y    | 3.3                               | ±30      | 0.0101                | 9.26                 | 12.7     | 13.2                              | ±30      | 0.0372                | 4.63                 | 6.35     |
| SRF1260-4R7Y    | 4.7                               | ±30      | 0.0137                | 7.18                 | 9.71     | 18.8                              | ±30      | 0.0479                | 3.59                 | 4.86     |
| SRF1260-6R8Y    | 6.8                               | ±30      | 0.0186                | 6.64                 | 8.68     | 27.2                              | ±30      | 0.0672                | 3.32                 | 4.34     |
| SRF1260-8R2Y    | 8.2                               | ±30      | 0.0194                | 5.54                 | 7.86     | 32.8                              | ±30      | 0.0737                | 2.77                 | 3.93     |
| SRF1260-100M    | 10                                | ±20      | 0.0246                | 5.35                 | 7.17     | 40                                | ±20      | 0.0934                | 2.67                 | 3.59     |
| SRF1260-150M    | 15                                | ±20      | 0.0329                | 4.27                 | 5.69     | 60                                | ±20      | 0.125                 | 2.13                 | 2.85     |
| SRF1260-220M    | 22                                | ±20      | 0.0451                | 3.7                  | 4.71     | 88                                | ±20      | 0.172                 | 1.84                 | 2.36     |
| SRF1260-330M    | 33                                | ±20      | 0.0618                | 3.28                 | 3.84     | 132                               | ±20      | 0.256                 | 1.64                 | 1.92     |
| SRF1260-470M    | 47                                | ±20      | 0.086                 | 2.71                 | 3.24     | 188                               | ±20      | 0.34                  | 1.35                 | 1.62     |
| SRF1260-680M    | 68                                | ±20      | 0.117                 | 2.22                 | 2.7      | 272                               | ±20      | 0.444                 | 1.11                 | 1.35     |
| SRF1260-820M    | 82                                | ±20      | 0.15                  | 2.05                 | 2.39     | 328                               | ±20      | 0.568                 | 1.03                 | 1.2      |
| SRF1260-101M    | 100                               | ±20      | 0.171                 | 1.78                 | 2.2      | 400                               | ±20      | 0.656                 | 0.892                | 1.1      |
| SRF1260-151M    | 150                               | ±20      | 0.254                 | 1.48                 | 1.81     | 600                               | ±20      | 0.972                 | 0.739                | 0.905    |
| SRF1260-221M    | 220                               | ±20      | 0.354                 | 1.19                 | 1.51     | 880                               | ±20      | 1.416                 | 0.594                | 0.755    |
| SRF1260-331M    | 330                               | ±20      | 0.574                 | 1.06                 | 1.22     | 1320                              | ±20      | 2.29                  | 0.53                 | 0.61     |
| SRF1260-471M    | 470                               | ±20      | 0.83                  | 0.87                 | 1.02     | 1880                              | ±20      | 3.197                 | 0.434                | 0.51     |
| SRF1260-681M    | 680                               | ±20      | 1.212                 | 0.7                  | 0.85     | 2720                              | ±20      | 4.635                 | 0.35                 | 0.425    |
| SRF1260-821M    | 820                               | ±20      | 1.46                  | 0.6                  | 0.77     | 3280                              | ±20      | 5.363                 | 0.301                | 0.385    |
| SRF1260-102M    | 1000                              | ±20      | 1.854                 | 0.57                 | 0.7      | 4000                              | ±20      | 6.782                 | 0.283                | 0.35     |

**General Specifications**

Test Voltage .....0.25 V  
 Hi-pot .....500 Vrms, 3 mA, 3 sec.  
 Reflow Soldering .. 230 °C; 50 sec. max.  
 Operating Temperature  
 ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .. -40 °C to +125 °C  
 Resistance to Solder Heat  
 ..... +260 °C for 10 sec.

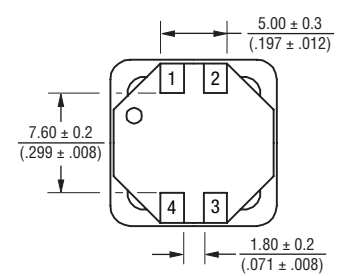
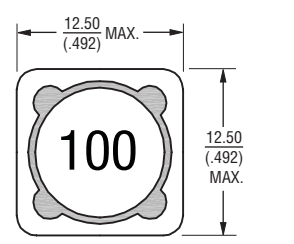
**Materials**

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Base ..... LCP  
 Adhesive ..... Epoxy resin  
 Terminal ..... Sn  
 Rated Current  
 ..... Inductance drops 30 % at Isat  
 Temperature Rise ..... 40 °C at rated I<sub>rms</sub>  
 Packaging ..... 400 pcs. per 13-inch reel

**How to Order**

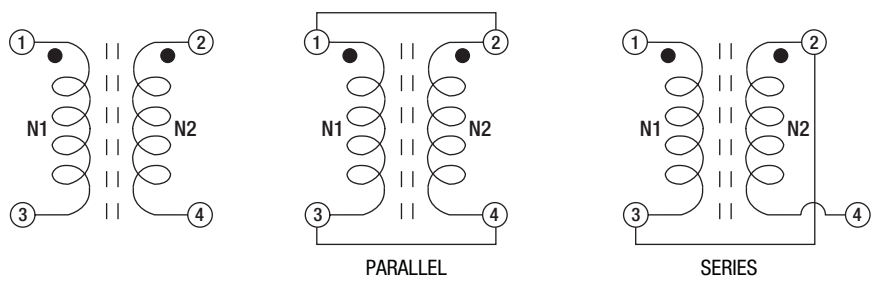
**SRF1260 - 100M**  
 Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

**Product Dimensions**

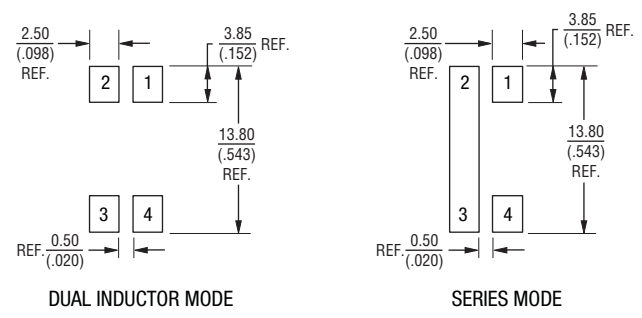


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

**Electrical Schematic**



**Recommended Layout**

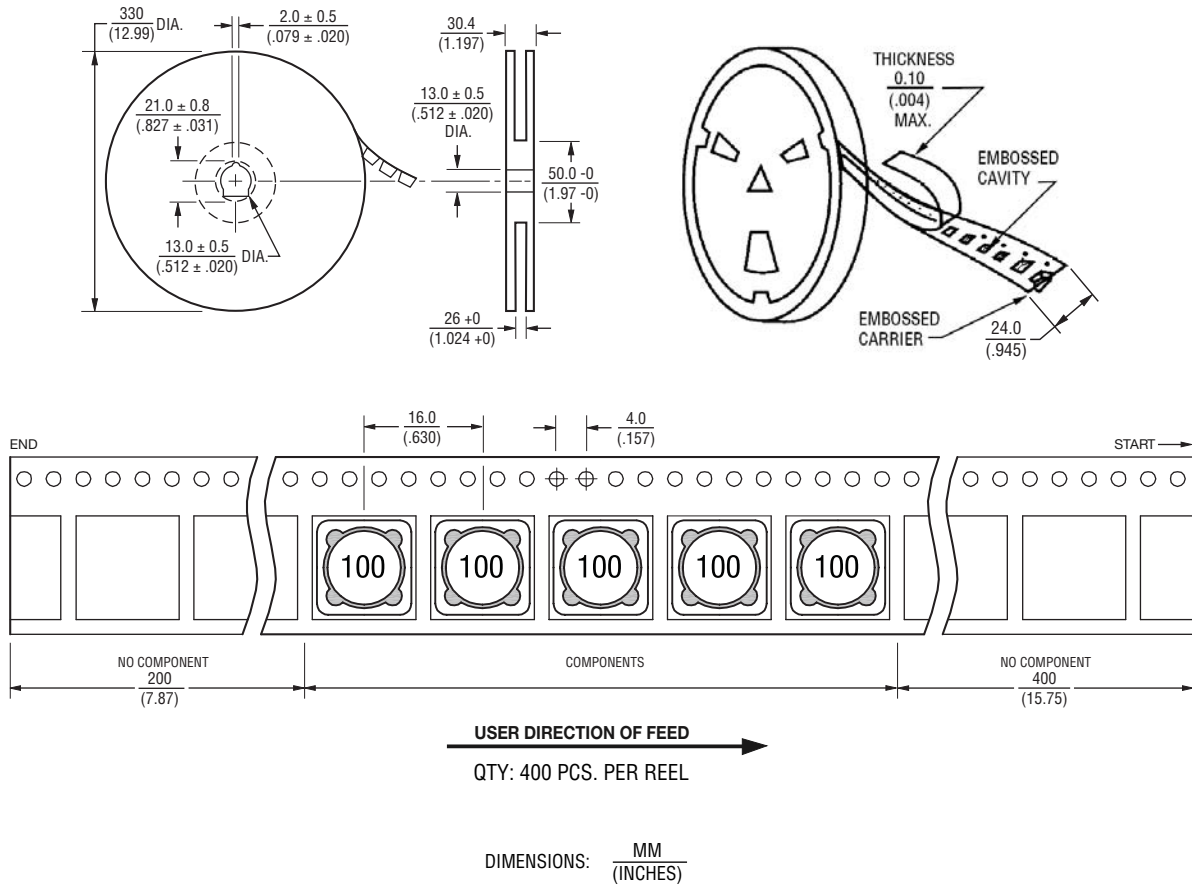


\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

# SRF1260 Series - Dual-Winding Shielded Power Inductors

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## Packaging Specifications



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