

*RoHS COMPLIANT



BOURNS®

Features

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000 μ 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 (μ H) | Tol. (%) | DCR (Ω) Max. | I _{rms} (A) | I _{sat} (A) | Inductance @ 100 KHz L (μ H) | Tol. (%) | DCR (Ω) Max. | I _{rms} (A) | I _{sat} (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.

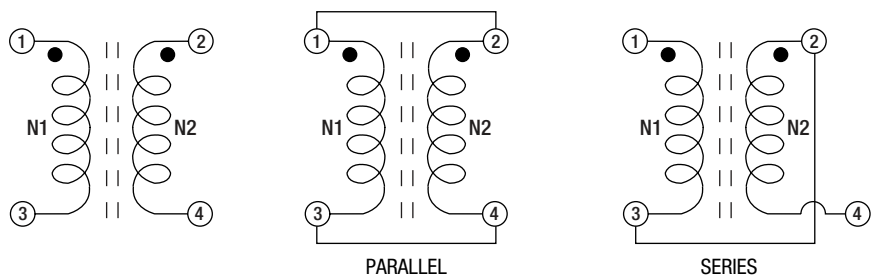
Materials

Core Ferrite
 Wire Enameled copper
 Base LCP
 Adhesive Epoxy resin
 Terminal Sn
 Rated Current
 Inductance drops 30 % at I_{sat}
 Temperature Rise 40 °C at rated I_{rms}
 Packaging 400 pcs. per 13-inch reel

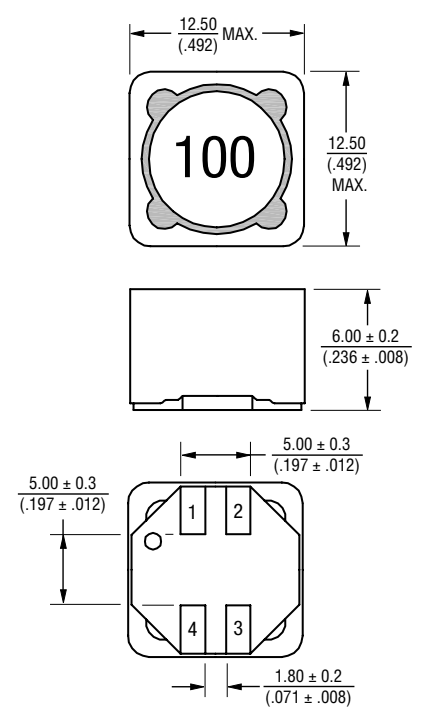
How to Order

SRF1260 - 100M
 Model _____
 Value Code (see table) _____

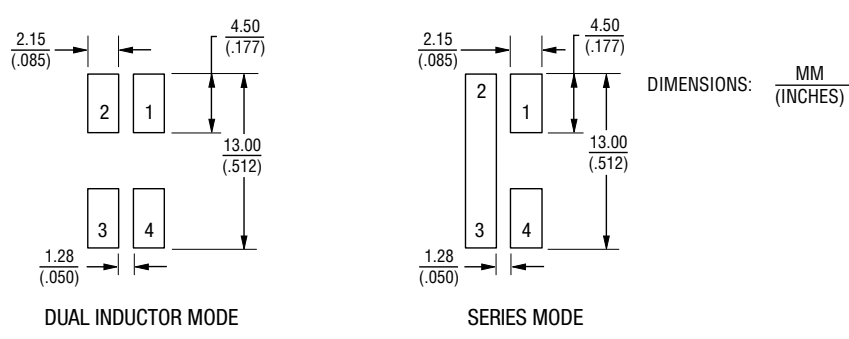
Electrical Schematic



Product Dimensions



Recommended Layout



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

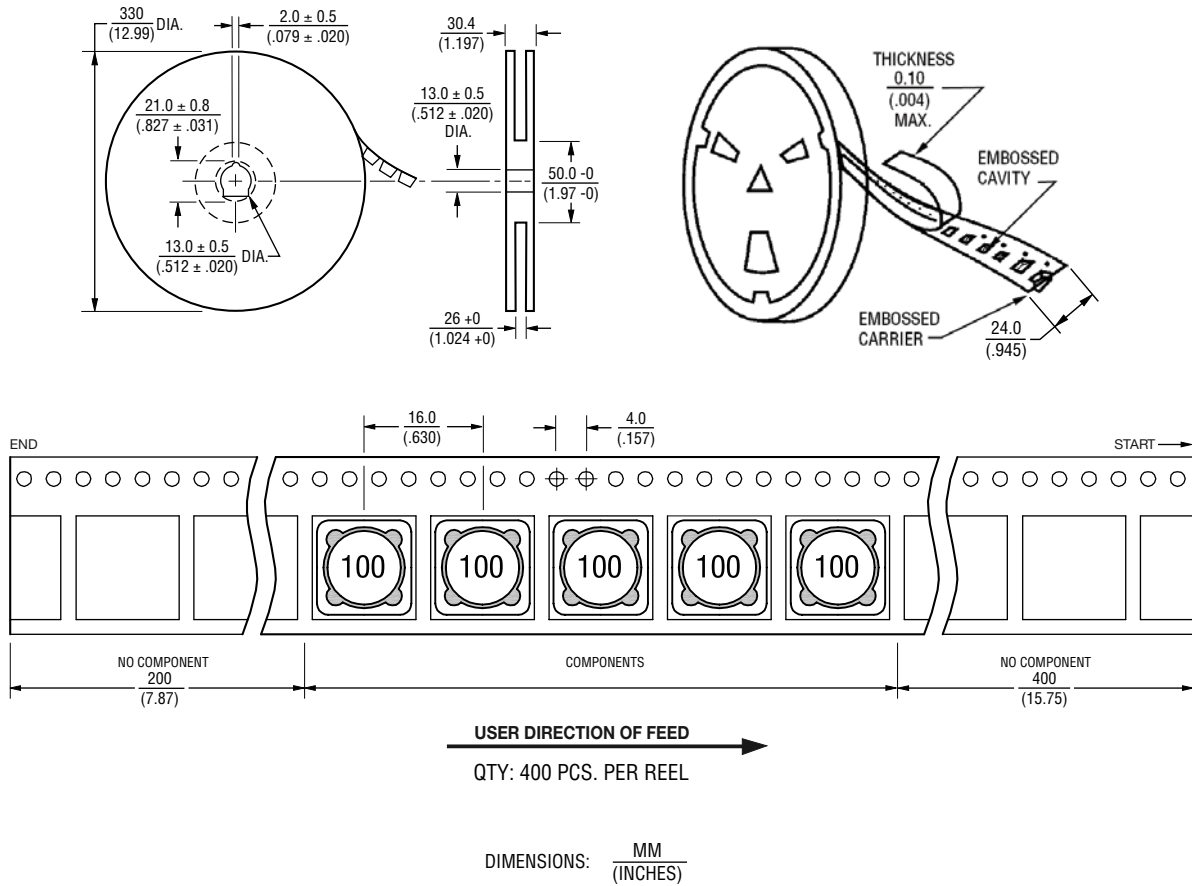
Specifications are subject to change without notice.

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.

SRF1260 Series - Dual-Winding Shielded Power Inductors

BOURNS®

Packaging Specifications



REV. 11/16

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.