

#### **Features**

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

### Applications

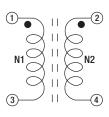
- SEPIC topology
- Power supplies for:
  - Communication equipment
  - Notebooks, desktop computers,
  - LCDs, flat panels, backlights
  - Camcorders, HDTVs

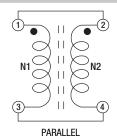
## SRF1260 Series - Dual-Winding Shielded Power Inductors

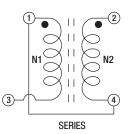
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#### Electrical Specifications @ 25 °C **Parallel Rating Series Rating** DCR **DCR** Inductance Inductance Bourns @ 100 KHz Tol. $(\Omega)$ Irms Isat @ 100 KHz Tol. $(\Omega)$ Irms Isat Part No. L (μH) (%) Max. (A) (A) Max L (µH) (%) (A) (A) SRF1260-R47Y 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 0.0073 0.0302 6.89 9.15 1.5 ±30 13.8 18.3 6 ±30 SRF1260-2R2Y 0.0085 10.9 15 0.0333 7.5 ±30 8.8 ±30 5.46 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 7.86 3.93 5.54 2.77 SRF1260-8R2Y 8.2 ±30 0.0194 32.8 ±30 0.0737 SRF1260-100M 5.35 7.17 2.67 3.59 10 ±20 0.0246 40 ±20 0.0934 2.13 SRF1260-150M 15 ±20 0.0329 4.27 5.69 60 ±20 0.125 2.85 SRF1260-220M 22 3.7 4.71 0.172 2.36 ±20 0.0451 88 ±20 1.84 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 0.171 0.892 ±20 1.78 2.2 400 ±20 0.656 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 1.22 ±20 2.29 0.574 1.06 1320 0.53 0.61 1.02 SRF1260-471M 470 ±20 0.87 1880 ±20 3.197 0.434 0.51 0.83 1.212 ±20 SRF1260-681M 680 ±20 0.7 0.85 2720 4.635 0.35 0.425 SRF1260-821M 820 ±20 1.46 0.6 0.77 3280 ±20 5.363 0.301 0.385 1.854 SRF1260-102M 1000 ±20 4000 ±20 0.283 0.35 0.57 0.7 6.782

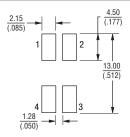
#### **Electrical Schematic**



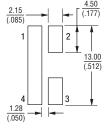




#### **Recommended Layout**







SERIES MODE

DIMENSIONS: (INCHES)

#### **General Specifications**

Test Voltage
Hi-pot500 Vrms, 3 mA, 3 sec.
Reflow Soldering 230 °C; 50 sec. max.
Operating Temperature
40 °C to +105 °C
(Temperature rise included)
Storage Temperature40 °C to +125 °C
Resistance to Solder Heat
+260 °C for 10 sec.

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

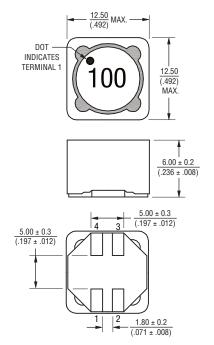
Materiais	
Core	Ferrite
	Enameled copper
Base	LCP
Adhesive	Epoxy resin
Terminal	Sn
Rated Current	

...... Inductance drops 30 % at Isat Temperature Rise .... 40 °C at rated Irms Packaging......400 pcs. per 13-inch reel

#### **How to Order**

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

#### **Product Dimensions**





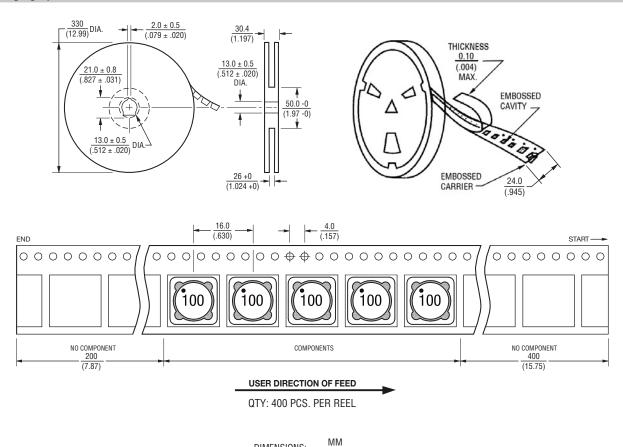
**WARNING Cancer and Reproductive Harm** www.P65Warnings.ca.gov

\*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. 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

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

### BOURNS

### **Packaging Specifications**



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

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C1753 05/17/18R

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