



### Features

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000  $\mu$ H
- 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

Bourns Part No.	Parallel Rating					Series Rating				
	Inductance @ 100 KHz/ 0.25 V L ( $\mu$ H)	Tol. (%)	DCR ( $\Omega$ ) Max.	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	Inductance @ 100 KHz/ 0.25 V L ( $\mu$ H)	Tol. (%)	DCR ( $\Omega$ ) Max.	I <sub>rms</sub> (A)	I <sub>sat</sub> (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

### 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<sub>rms</sub>  
 Inductance Drop ..... 30 % typ. at I<sub>sat</sub>  
 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



### Electrical Schematics



### Recommended Layout



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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.

# SRF1260A Series - Dual-Winding Shielded Power Inductors

**BOURNS®**

## Soldering Profile



## How to Order

**SRF1260A - 100M**

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

## Packaging Specifications



REV. 11/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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