

## **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**

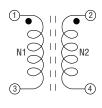
- DC/DC converters
- Power supplies
- SEPIC DC/DC converters

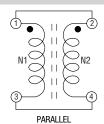
# SRF1260A Series - Dual-Winding Shielded Power Inductors

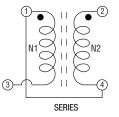
# Electrical Specifications @ 25 °C

	Parallel Rating					Series Rating				
Bourns Part No.	Inductance @ 100 KHz/ 0.25 V L (μH)	Tol. (%)	DCR (Ω) Max.	Irms (A)	Isat (A)	Inductance @ 100 KHz/ 0.25 V L (μH)	Tol. (%)	DCR (Ω) Max.	Irms (A)	Isat (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

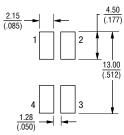
## **Electrical Schematics**

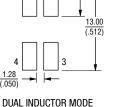


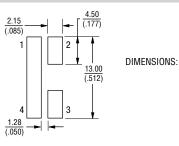




## **Recommended Layout**







**SERIES MODE** 

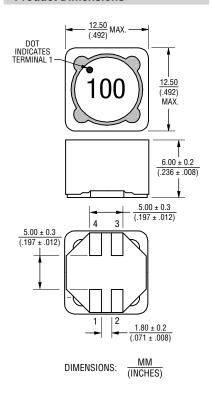
#### Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

# **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 Wire Terminal Finish Packaging	Enameled copper Sn

#### **Product Dimensions**





(INCHES)

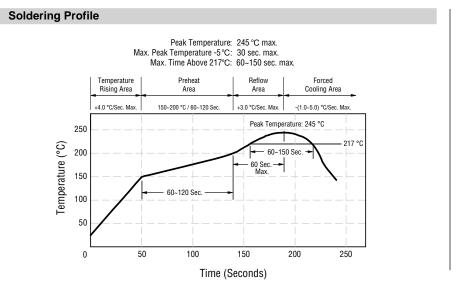
## WARNING **Cancer and Reproductive Harm** www.P65Warnings.ca.gov

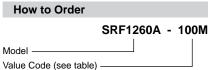
RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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.

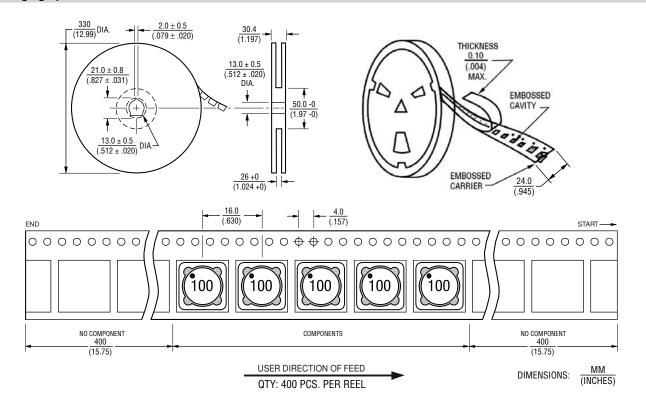
# **SRF1260A Series - Dual-Winding Shielded Power Inductors**

# BOURNS





# **Packaging Specifications**



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