



**THE DATASHEET OF
SRF1280-6R8Y**





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 17.9 A
- RoHS compliant*

Applications

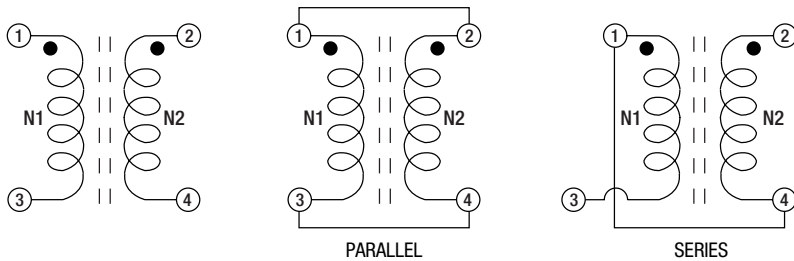
- SEPIC topology
- Power supplies for:
 - Communication equipment
 - Notebooks, desktop computers, servers
 - LCDs, flat panels, backlights
 - Camcorders, HDTVs

SRF1280 Series - Dual-Winding Shielded Power Inductors

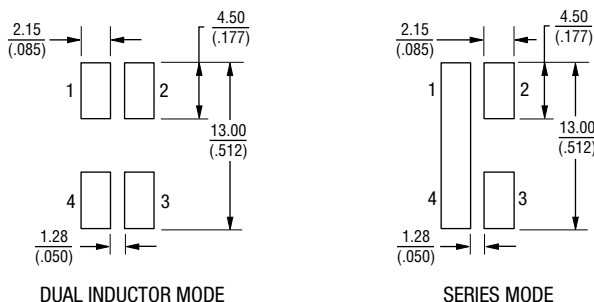
Electrical Specifications @ 25 °C

Bourns Part No.	Parallel Rating					Series Rating				
	Inductance @ 100 KHz L (μ H)	Tol. (%)	DCR (Ω) Max.	I _{rms} (A)	Isat (A)	Inductance @ 100 KHz L (μ H)	Tol. (%)	DCR (Ω) Max.	I _{rms} (A)	Isat (A)
SRF1280-R47Y	0.47	±30	0.0055	17.9	56	1.88	±30	0.0216	8.94	28
SRF1280-1R0Y	1.0	±30	0.0067	15.5	40	4	±30	0.026	7.74	20
SRF1280-1R5Y	1.5	±30	0.0076	13.5	31.1	6	±30	0.0306	6.77	15.6
SRF1280-2R2Y	2.2	±30	0.0092	12.5	25.5	8.8	±30	0.0338	6.23	12.7
SRF1280-3R3Y	3.3	±30	0.011	10.4	21.5	13.2	±30	0.04	5.23	10.8
SRF1280-4R7Y	4.7	±30	0.0135	8.25	16.5	18.8	±30	0.05	4.13	8.24
SRF1280-6R8Y	6.8	±30	0.0183	7.34	13.3	27.2	±30	0.0656	3.67	6.67
SRF1280-8R2Y	8.2	±30	0.0191	6.32	12.2	32.8	±30	0.0714	3.16	6.09
SRF1280-100M	10	±20	0.0241	6.04	11.2	40	±20	0.0921	3.02	5.6
SRF1280-150M	15	±20	0.0333	5.03	9.66	60	±20	0.129	2.51	4.83
SRF1280-220M	22	±20	0.0503	4	7.57	88	±20	0.192	2	3.78
SRF1280-330M	33	±20	0.0664	3.23	6.22	132	±20	0.265	1.61	3.11
SRF1280-470M	47	±20	0.0898	2.95	5.28	188	±20	0.353	1.47	2.64
SRF1280-680M	68	±20	0.123	2.44	4.44	272	±20	0.469	1.22	2.22
SRF1280-820M	82	±20	0.153	2.09	4.06	328	±20	0.578	1.04	2.03
SRF1280-101M	100	±20	0.175	1.96	3.64	400	±20	0.701	0.98	1.82
SRF1280-151M	150	±20	0.261	1.59	3.01	600	±20	1.013	0.796	1.51
SRF1280-221M	220	±20	0.343	1.29	2.43	880	±20	1.38	0.645	1.22
SRF1280-331M	330	±20	0.54	1.04	2.01	1320	±20	2.172	0.522	1.01
SRF1280-471M	470	±20	0.865	0.85	1.68	1880	±20	3.3	0.427	0.838
SRF1280-681M	680	±20	1.296	0.76	1.39	2720	±20	4.888	0.38	0.697
SRF1280-821M	820	±20	1.632	0.65	1.27	3280	±20	5.896	0.325	0.633
SRF1280-102M	1000	±20	1.992	0.61	1.14	4000	±20	7.202	0.307	0.571

Electrical Schematic



Recommended Layout



Additional Information

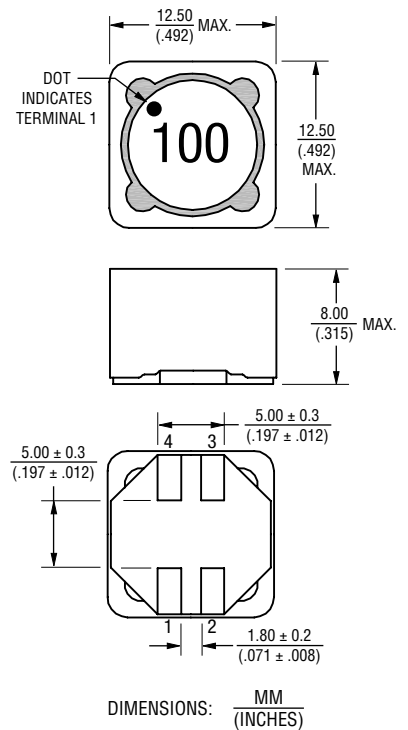
Click these links for more information:



General Specifications

Test Voltage 0.25 V
 Hi-pot 500 Vrms, 3 mA, 3 sec.
 Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Product Dimensions



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

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

SRF1280 Series - Dual-Winding Shielded Power Inductors

BOURNS®

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 Irms
 Packaging..... 400 pcs. per 13-inch reel

How to Order

SRF1280 - 100M

Model _____
 Value Code (see table) _____

Packaging Specifications



BOURNS®

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REV. 04/21

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