



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
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

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

SRF1280A 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)
SRF1280A-R47Y	0.47	±30	0.0055	17.9	56	1.88	±30	0.0216	8.94	28
SRF1280A-1R0Y	1.0	±30	0.0067	15.5	40	4	±30	0.026	7.74	20
SRF1280A-1R5Y	1.5	±30	0.0076	13.5	31.1	6	±30	0.0306	6.77	15.6
SRF1280A-2R2Y	2.2	±30	0.0092	12.5	25.5	8.8	±30	0.0338	6.23	12.7
SRF1280A-3R3Y	3.3	±30	0.011	10.4	21.5	13.2	±30	0.04	5.23	10.8
SRF1280A-4R7Y	4.7	±30	0.0135	8.25	16.5	18.8	±30	0.05	4.13	8.24
SRF1280A-6R8Y	6.8	±30	0.0183	7.34	13.3	27.2	±30	0.0656	3.67	6.67
SRF1280A-8R2Y	8.2	±30	0.0191	6.32	12.2	32.8	±30	0.0714	3.16	6.09
SRF1280A-100M	10	±20	0.0241	6.04	11.2	40	±20	0.0921	3.02	5.6
SRF1280A-150M	15	±20	0.0333	5.03	9.66	60	±20	0.129	2.51	4.83
SRF1280A-220M	22	±20	0.0503	4	7.57	88	±20	0.192	2	3.78
SRF1280A-330M	33	±20	0.0664	3.23	6.22	132	±20	0.265	1.61	3.11
SRF1280A-470M	47	±20	0.0898	2.95	5.28	188	±20	0.353	1.47	2.64
SRF1280A-680M	68	±20	0.123	2.44	4.44	272	±20	0.469	1.22	2.22
SRF1280A-820M	82	±20	0.153	2.09	4.06	328	±20	0.578	1.04	2.03
SRF1280A-101M	100	±20	0.175	1.96	3.64	400	±20	0.701	0.98	1.82
SRF1280A-151M	150	±20	0.261	1.59	3.01	600	±20	1.013	0.796	1.51
SRF1280A-221M	220	±20	0.343	1.29	2.43	880	±20	1.38	0.645	1.22
SRF1280A-331M	330	±20	0.54	1.04	2.01	1320	±20	2.172	0.522	1.01
SRF1280A-471M	470	±20	0.865	0.85	1.68	1880	±20	3.3	0.427	0.838
SRF1280A-681M	680	±20	1.296	0.76	1.39	2720	±20	4.888	0.38	0.697
SRF1280A-821M	820	±20	1.632	0.65	1.27	3280	±20	5.896	0.325	0.633
SRF1280A-102M	1000	±20	1.992	0.61	1.14	4000	±20	7.202	0.307	0.571

Electrical Schematic



Recommended Layout



General Specifications

Test Voltage0.25 V
 Operating Temperature-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature-40 °C to +125 °C
 Resistance to Solder Heat+245 °C for 10 sec.
 Temperature Rise40 °C typ. at rated I_{rms}
 Inductance drop30 % at Isat
 Hi-pot (N1-N2)500 Vac/60 Hz,
 3 mA, 1 sec
 Moisture Sensitivity Level1
 ESD Classification (HBM)N/A

Materials

CoreFerrite
 WireEnameled copper
 Terminal FinishSn
 Packaging400 pcs. per reel

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.
 ** 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.
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Users should verify actual device performance in their specific applications.

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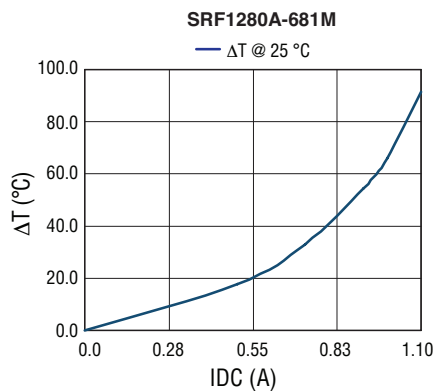
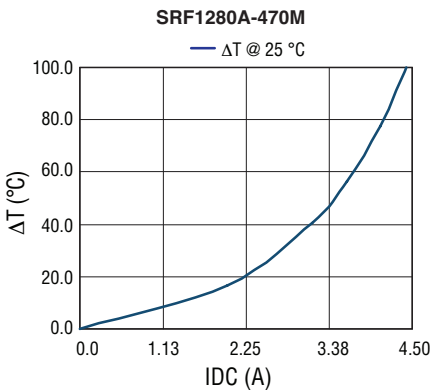
SRF1280A Series - Dual-Winding Shielded Power Inductors



Inductance vs. IDC



Temperature Rise vs. IDC



Soldering Profile



How to Order

SRF1280A - 100M

Model _____

Value Code (see table) _____

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Packaging Specifications



REV. 11/18

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