# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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#### Features

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000 µH
- Rated current up to 17.9 A
- RoHS compliant\*

### Applications

SEPIC topology

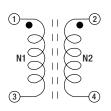
SRF1280 Series - Dual-Winding Shielded Power Inductors

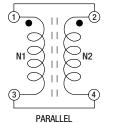
- Power supplies for:
  - Communication equipment
  - Notebooks, desktop computers, servers
  - LCDs, flat panels, backlights
  - Camcorders, HDTVs, car audio systems

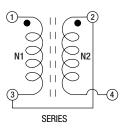
#### Electrical Specifications @ 25 °C

	Parallel Rating					Series Rating				
Bourns Part No.	Inductance @ 100 KHz L (μH)	Tol. (%)	DCR (Ω) Max.	Irms (A)	lsat (A)	Inductance @ 100 KHz L (μH)	Tol. (%)	DCR (Ω) Max.	Irms (A)	lsat (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** 4.50 4.50 $\frac{2.15}{(.085)}$ 2.15 (.177)(.177) 2 MM 2 1 DIMENSIONS: (INCHES) 13.00 13.00 (.512) (.512) 4 3 3 1.28 1.28 (.050) (.050) DUAL INDUCTOR MODE SERIES MODE

\*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.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

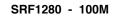
#### **General Specifications**

Test Voltage0.25 V Hi-pot500 Vrms, 3 mA, 3 sec.
Reflow Soldering 230 °C; 50 sec. max. Operating Temperature
-40 °C to +125 °C
(Temperature rise included)
Storage Temperature40 °C to +125 °C
Resistance to Solder Heat
+260 °C for 10 sec.
Materials
CoreFerrite
WireEnameled copper
Base
Adhesive Epoxy resin

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

Terminal.....Sn

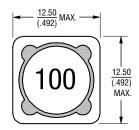
#### How to Order

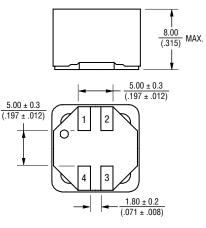


Model \_\_\_\_\_

#### Value Code (see table) -

#### **Product Dimensions**

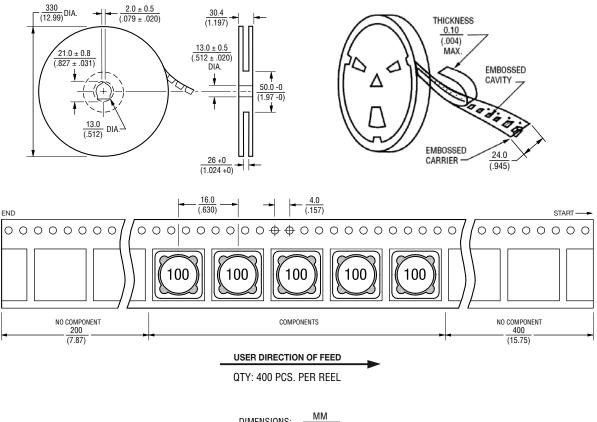




## SRF1280 Series - Dual-Winding Shielded Power Inductors

Bourns

#### **Packaging Specifications**



DIMENSIONS: MIM (INCHES)