



**THE DATASHEET OF
SRF1260-680M**





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 17.6 A
- RoHS compliant*

Applications

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

SRF1260 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)
SRF1260-R47Y	0.47	±30	0.0053	17.6	33	1.88	±30	0.0212	8.8	16.5
SRF1260-1R0Y	1.0	±30	0.0062	15	23.6	4	±30	0.026	7.51	11.8
SRF1260-1R5Y	1.5	±30	0.0073	13.8	18.3	6	±30	0.0302	6.89	9.15
SRF1260-2R2Y	2.2	±30	0.0085	10.9	15	8.8	±30	0.0333	5.46	7.5
SRF1260-3R3Y	3.3	±30	0.0101	9.26	12.7	13.2	±30	0.0372	4.63	6.35
SRF1260-4R7Y	4.7	±30	0.0137	7.18	9.71	18.8	±30	0.0479	3.59	4.86
SRF1260-6R8Y	6.8	±30	0.0186	6.64	8.68	27.2	±30	0.0672	3.32	4.34
SRF1260-8R2Y	8.2	±30	0.0194	5.54	7.86	32.8	±30	0.0737	2.77	3.93
SRF1260-100M	10	±20	0.0246	5.35	7.17	40	±20	0.0934	2.67	3.59
SRF1260-150M	15	±20	0.0329	4.27	5.69	60	±20	0.125	2.13	2.85
SRF1260-220M	22	±20	0.0451	3.7	4.71	88	±20	0.172	1.84	2.36
SRF1260-330M	33	±20	0.0618	3.28	3.84	132	±20	0.256	1.64	1.92
SRF1260-470M	47	±20	0.086	2.71	3.24	188	±20	0.34	1.35	1.62
SRF1260-680M	68	±20	0.117	2.22	2.7	272	±20	0.444	1.11	1.35
SRF1260-820M	82	±20	0.15	2.05	2.39	328	±20	0.568	1.03	1.2
SRF1260-101M	100	±20	0.171	1.78	2.2	400	±20	0.656	0.892	1.1
SRF1260-151M	150	±20	0.254	1.48	1.81	600	±20	0.972	0.739	0.905
SRF1260-221M	220	±20	0.354	1.19	1.51	880	±20	1.416	0.594	0.755
SRF1260-331M	330	±20	0.574	1.06	1.22	1320	±20	2.29	0.53	0.61
SRF1260-471M	470	±20	0.83	0.87	1.02	1880	±20	3.197	0.434	0.51
SRF1260-681M	680	±20	1.212	0.7	0.85	2720	±20	4.635	0.35	0.425
SRF1260-821M	820	±20	1.46	0.6	0.77	3280	±20	5.363	0.301	0.385
SRF1260-102M	1000	±20	1.854	0.57	0.7	4000	±20	6.782	0.283	0.35

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 +105 °C
 (Temperature rise included)
 Storage Temperature ..-40 °C to +125 °C
 Resistance to Solder Heat
+260 °C for 10 sec.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

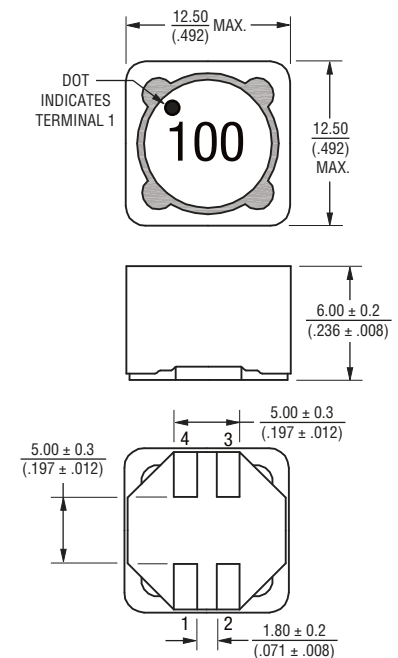
Materials

CoreFerrite
 Wire Enameled copper
 Base LCP
 Adhesive Epoxy resin
 Terminal Sn
 Rated Current
 Inductance drops 30 % at Isat
 Temperature Rise 40 °C at rated I_{rms}
 Packaging 400 pcs. per 13-inch reel

How to Order

Model _____ **SRF1260 - 100M**
 Value Code (see table) _____

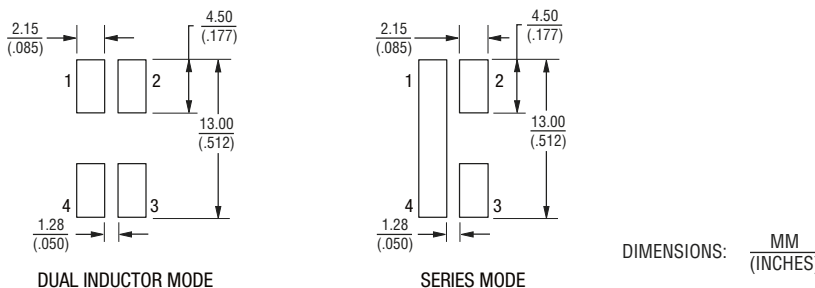
Product Dimensions



Electrical Schematic



Recommended Layout



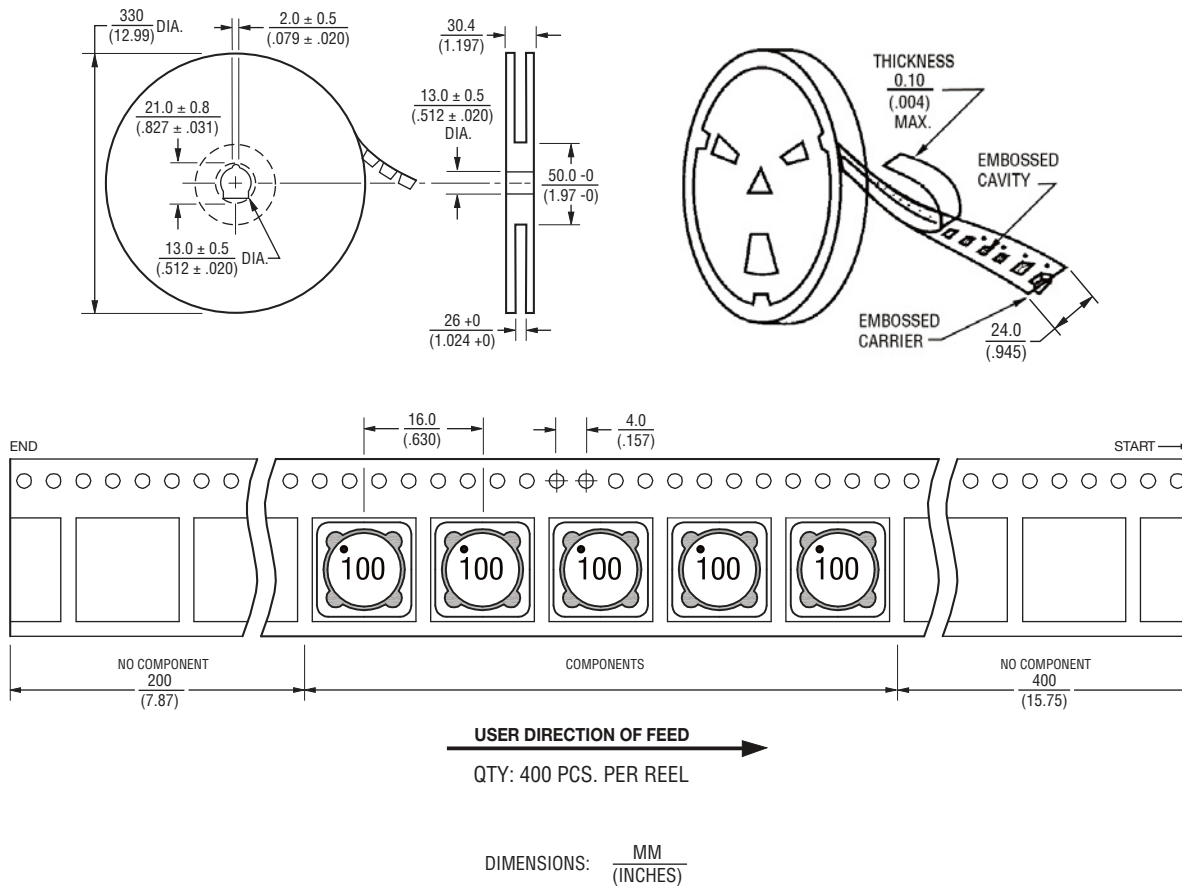
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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SRF1260 Series - Dual-Winding Shielded Power Inductors

BOURNS®

Packaging Specifications



BOURNS®

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