



Features

- Multiple applications: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 0.47 to 4000 μ H
- Heating current up to 17.6 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

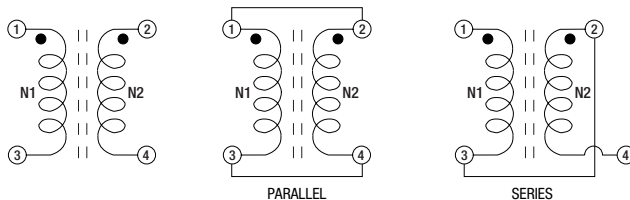
- Automotive systems:
 - Driver assistant
 - Information
 - Entertainment
 - Lighting
- DC/DC converters
- Power supplies
- SEPIC - DC/DC converters

SRF1260A Series - Dual-Winding Shielded Power Inductors

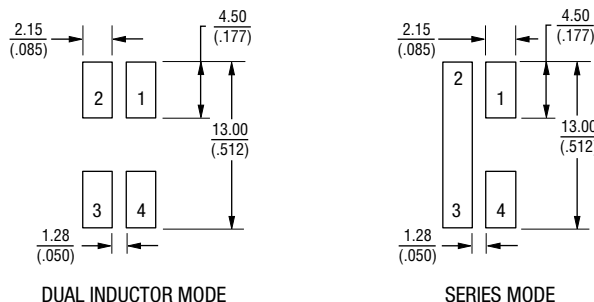
Electrical Specifications @ 25 °C

| Bourns Part No. | Parallel Rating | | | | | Series Rating | | | | |
|-----------------|---|----------|-----------------------|----------------------|----------|---|----------|-----------------------|----------------------|----------|
| | Inductance @ 100 KHz/ 0.25 V L (μ H) | Tol. (%) | DCR (Ω) Max. | I _{rms} (A) | Isat (A) | Inductance @ 100 KHz/ 0.25 V L (μ H) | Tol. (%) | DCR (Ω) Max. | I _{rms} (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 |

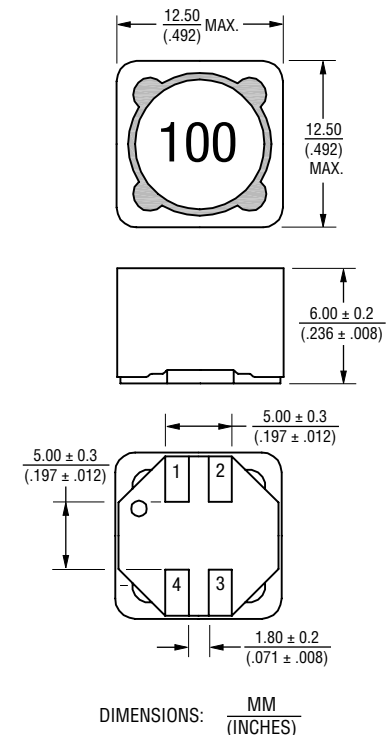
Electrical Schematics



Recommended Layout



Product Dimensions



* 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.

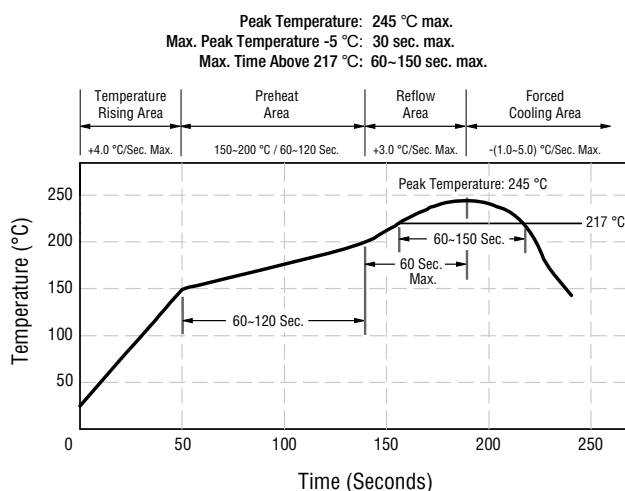
Specifications are subject to change without notice.

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.

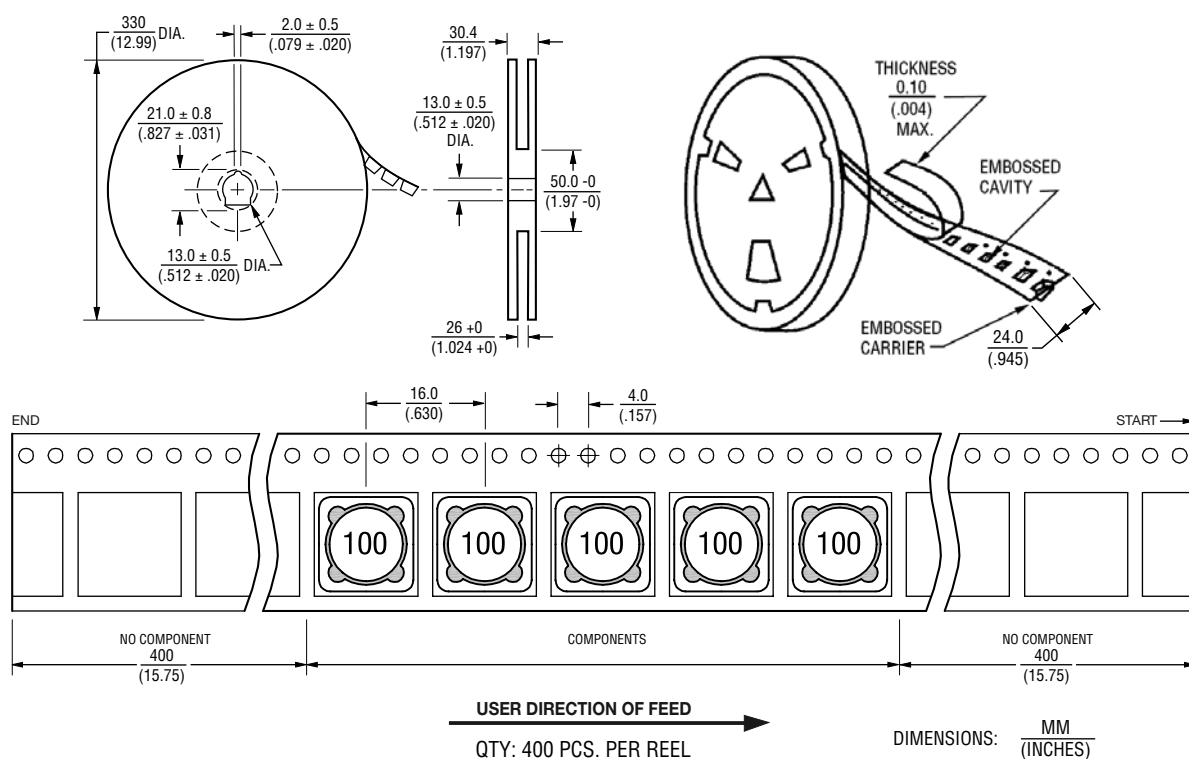
SRF1260A Series - Dual-Winding Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 11/16

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