

*RoHS COMPLIANT



BOURNS®

Features

- Available in E6 values
- Height of 4.3 mm maximum
- Current rating to 9.2 amps
- Lead free
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR1240 Series - Shielded SMD Power Inductors

Electrical Specifications

| Bourns Part No. | Inductance 100 kHz | | Q Typ. | Test Frequency (MHz) | SRF Min. (MHz) | RDC Max. (Ω) | I rms Max. (A) | I sat Typ. (A) |
|-----------------|--------------------|--------|-----------|----------------------------|----------------------|--------------------|----------------------|----------------------|
| | (μH) | Tol. % | | | | | | |
| SRR1240-1R5Y | 1.5 | ± 30 | 16 | 7.96 | 80 | 0.0095 | 9.20 | 9.00 |
| SRR1240-3R3Y | 3.3 | ± 30 | 14 | 7.96 | 43 | 0.0150 | 6.80 | 6.50 |
| SRR1240-4R7M | 4.7 | ± 20 | 16 | 7.96 | 33 | 0.0180 | 6.00 | 5.60 |
| SRR1240-5R6M | 5.6 | ± 20 | 14 | 7.96 | 35 | 0.0200 | 5.40 | 5.10 |
| SRR1240-6R8M | 6.8 | ± 20 | 14 | 7.96 | 34 | 0.0230 | 5.20 | 4.70 |
| SRR1240-100M | 10.0 | ± 20 | 17 | 2.52 | 27 | 0.0320 | 4.00 | 4.00 |
| SRR1240-150M | 15.0 | ± 20 | 16 | 2.52 | 22 | 0.0470 | 3.50 | 3.20 |
| SRR1240-220M | 22.0 | ± 20 | 18 | 2.52 | 16 | 0.0675 | 3.00 | 2.60 |
| SRR1240-330M | 33.0 | ± 20 | 19 | 2.52 | 15 | 0.0970 | 2.30 | 2.10 |
| SRR1240-470M | 47.0 | ± 20 | 19 | 2.52 | 13 | 0.1350 | 2.00 | 1.80 |
| SRR1240-680M | 68.0 | ± 20 | 19 | 2.52 | 11 | 0.2000 | 1.50 | 1.50 |
| SRR1240-101M | 100.0 | ± 20 | 14 | 0.796 | 8 | 0.3000 | 1.25 | 1.20 |

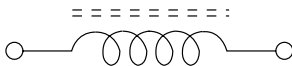
General Specifications

Test Voltage.....0.1 V
 Reflow Soldering ...230 °C, 50 sec. max.
 Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Resistance to Soldering Heat
260 °C for 10 sec.

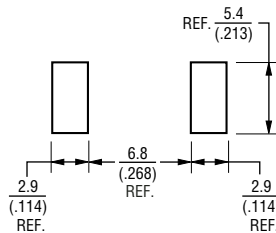
Materials

CoreFerrite DR and RI
 WireEnameled copper wire 130
 Terminal.....Cu/Ni/Sn
 Rated Current
Ind. drop 25 % typ. at Isat
 Temperature Rise40 °C max.
 at rated I rms
 Packaging800 pcs. per reel

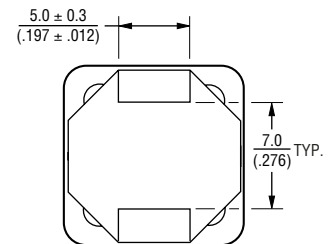
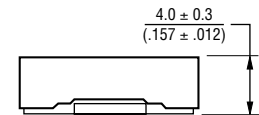
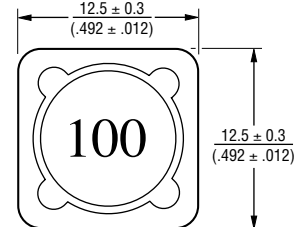
Electrical Schematic



Recommended Layout



Product Dimensions



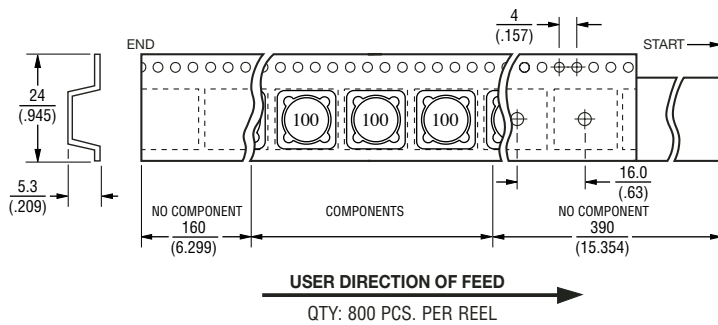
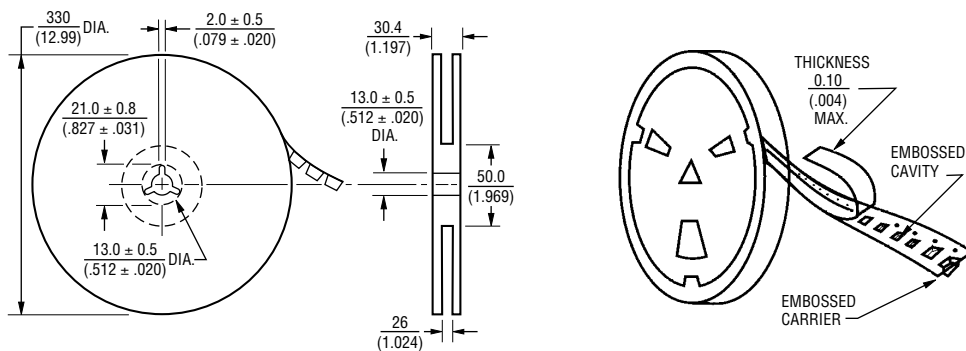
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

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Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 05/05

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