



**THE DATASHEET OF
SRR7045-471M**





Features

- Available in E6 values
- Current rating to 3.50 amps
- RoHS compliant*

Applications

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

SRR7045 Series - Shielded SMD Power Inductors

Electrical Specifications

| Bourns Part No. | Inductance 1 KHz | | Q Typ. | Test Frequency (MHz) | SRF Typ. (MHz) | RDC Max. (Ω) | I rms Max. (A) | I sat Typ. (A) |
|-----------------|------------------|--------|-----------|----------------------------|----------------------|--------------------|----------------------|----------------------|
| | uH | Tol. % | | | | | | |
| SRR7045-1R0M | 1.0 | ±20 | 10 | 7.96 | 60 | 0.020 | 3.50 | 3.20 |
| SRR7045-2R2M | 2.2 | ±20 | 10 | 7.96 | 60 | 0.022 | 2.80 | 2.50 |
| SRR7045-2R7M | 2.7 | ±20 | 10 | 7.96 | 60 | 0.027 | 2.78 | 3.10 |
| SRR7045-3R3M | 3.3 | ±20 | 10 | 7.96 | 43 | 0.027 | 2.50 | 2.20 |
| SRR7045-3R9M | 3.9 | ±20 | 10 | 7.96 | 40 | 0.028 | 2.71 | 2.43 |
| SRR7045-4R7M | 4.7 | ±20 | 10 | 7.96 | 35 | 0.030 | 2.64 | 2.20 |
| SRR7045-5R6M | 5.6 | ±20 | 10 | 7.96 | 33 | 0.036 | 2.38 | 2.00 |
| SRR7045-6R3M | 6.3 | ±20 | 10 | 7.96 | 30 | 0.038 | 2.33 | 1.85 |
| SRR7045-6R8M | 6.8 | ±20 | 10 | 7.96 | 28 | 0.036 | 2.20 | 2.00 |
| SRR7045-100M | 10 | ±20 | 30 | 2.52 | 25 | 0.042 | 2.00 | 1.70 |
| SRR7045-120M | 12 | ±20 | 27 | 2.52 | 23 | 0.050 | 1.85 | 1.40 |
| SRR7045-150M | 15 | ±20 | 31 | 2.52 | 24 | 0.062 | 1.60 | 1.35 |
| SRR7045-180M | 18 | ±20 | 29 | 2.52 | 21 | 0.070 | 1.50 | 1.15 |
| SRR7045-220M | 22 | ±20 | 26 | 2.52 | 21 | 0.070 | 1.50 | 1.15 |
| SRR7045-270M | 27 | ±20 | 25 | 2.52 | 18 | 0.110 | 1.25 | 1.00 |
| SRR7045-330M | 33 | ±20 | 25 | 2.52 | 12 | 0.115 | 1.15 | 0.90 |
| SRR7045-390M | 39 | ±20 | 26 | 2.52 | 13 | 0.130 | 1.10 | 0.80 |
| SRR7045-470M | 47 | ±20 | 29 | 2.52 | 11 | 0.150 | 0.95 | 0.78 |
| SRR7045-560M | 56 | ±20 | 21 | 2.52 | 11 | 0.200 | 0.85 | 0.65 |
| SRR7045-680M | 68 | ±20 | 22 | 2.52 | 10 | 0.210 | 0.77 | 0.60 |
| SRR7045-820M | 82 | ±20 | 22 | 2.52 | 9 | 0.280 | 0.70 | 0.60 |
| SRR7045-101M | 100 | ±20 | 40 | 0.796 | 8 | 0.300 | 0.65 | 0.50 |
| SRR7045-121M | 120 | ±20 | 30 | 0.796 | 7 | 0.420 | 0.60 | 0.45 |
| SRR7045-151M | 150 | ±20 | 51 | 0.796 | 7 | 0.480 | 0.53 | 0.41 |
| SRR7045-181M | 180 | ±20 | 52 | 0.796 | 5 | 0.660 | 0.475 | 0.375 |
| SRR7045-221M | 220 | ±20 | 44 | 0.796 | 5 | 0.700 | 0.45 | 0.36 |
| SRR7045-271M | 270 | ±20 | 30 | 0.796 | 5 | 0.840 | 0.40 | 0.275 |
| SRR7045-331M | 330 | ±20 | 65 | 0.796 | 4 | 0.730 | 0.40 | 0.25 |
| SRR7045-391M | 390 | ±20 | 27 | 0.796 | 5 | 1.200 | 0.35 | 0.225 |
| SRR7045-471M | 470 | ±20 | 80 | 0.796 | 3 | 1.100 | 0.32 | 0.22 |
| SRR7045-561M | 560 | ±20 | 27 | 0.796 | 4 | 1.600 | 0.30 | 0.20 |
| SRR7045-681M | 680 | ±20 | 65 | 0.796 | 3 | 1.600 | 0.27 | 0.20 |
| SRR7045-821M | 820 | ±20 | 26 | 0.796 | 3 | 2.200 | 0.25 | 0.175 |
| SRR7045-102M | 1000 | ±20 | 90 | 0.252 | 3 | 2.400 | 0.25 | 0.15 |

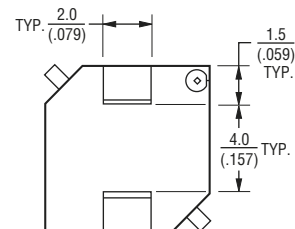
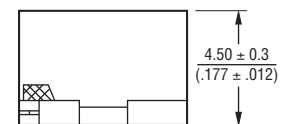
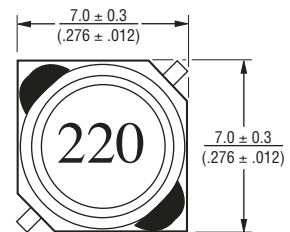
General Specifications

Test Voltage 0.5 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.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Materials

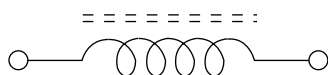
Core Ferrite DR & RI
 Wire Enameled copper wire 130
 Terminal Cu/Ni/Sn
 Rated Current
 Ind. drop of 10 % typ. at Isat
 (-1R0M through -221M)
 Ind. drop of 25 % typ. at Isat
 (-271M through -102M)
 Temperature Rise
 30 °C max. at rated Irms
 Packaging 1000 pcs. per reel

Product Dimensions

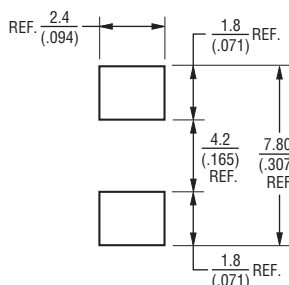


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Schematic



Recommended Layout



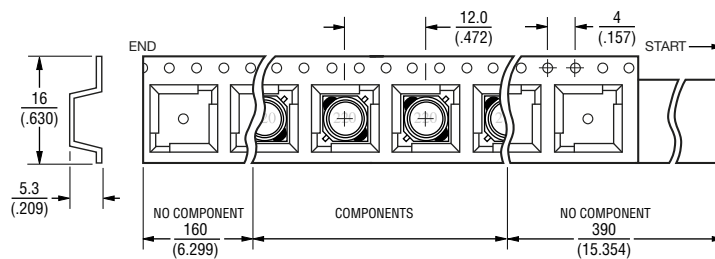
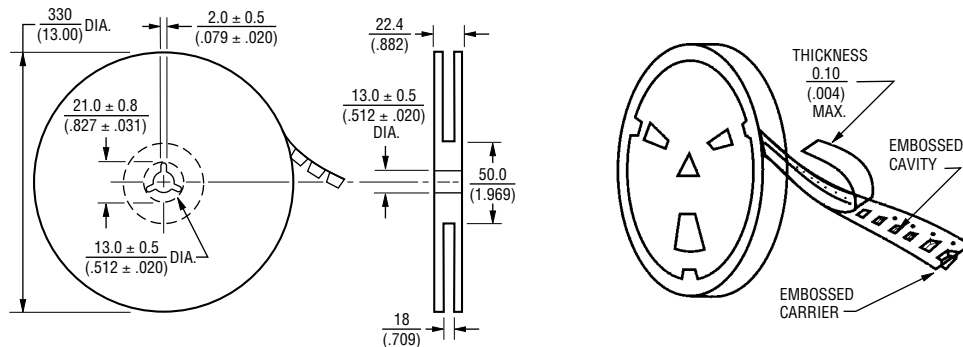
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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SRR7045 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED →

QTY: 1000 PCS. PER REEL

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

BOURNS®

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REV. 03/18

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Users should verify actual device performance in their specific applications.

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