



**THE DATASHEET OF
SRR6028-390Y**





Features

- Height of 3.0 mm max.
- Current rating up to 3.4 A
- RoHS compliant*

Applications

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

SRR6028 Series - Shielded SMD Power Inductors

Electrical Characteristics

| Bourns Part Number | Inductance 100 kHz | | Q Ref. | Test Frequency (MHz) | SRF Typ. (MHz) | DCR Max. (mΩ) | I rms (A) | I sat (A) |
|--------------------|--------------------|--------|--------|----------------------|----------------|---------------|-----------|-----------|
| | (μH) | Tol. % | | | | | | |
| SRR6028-1R5Y | 1.5 | ±30 | 8 | 7.96 | 55 | 14 | 3.40 | 3.50 |
| SRR6028-2R5Y | 2.5 | ±30 | 8.5 | 7.96 | 50 | 25 | 2.80 | 3.00 |
| SRR6028-3R0Y | 3.0 | ±30 | 9 | 7.96 | 45 | 28 | 3.00 | 2.60 |
| SRR6028-3R3Y | 3.3 | ±30 | 10 | 7.96 | 45 | 28 | 2.50 | 2.60 |
| SRR6028-3R9Y | 3.9 | ±30 | 9 | 7.96 | 40 | 32 | 2.45 | 2.30 |
| SRR6028-5R0Y | 5.0 | ±30 | 7.5 | 7.96 | 38 | 36 | 2.40 | 2.10 |
| SRR6028-6R0Y | 6.0 | ±30 | 9 | 7.96 | 35 | 40 | 2.30 | 2.00 |
| SRR6028-7R3Y | 7.3 | ±30 | 6 | 7.96 | 30 | 52 | 2.20 | 1.85 |
| SRR6028-8R6Y | 8.6 | ±30 | 8 | 2.52 | 28 | 56 | 2.10 | 1.82 |
| SRR6028-100Y | 10 | ±30 | 11 | 2.52 | 25 | 65 | 2.00 | 1.70 |
| SRR6028-120Y | 12 | ±30 | 10 | 2.52 | 24 | 70 | 1.90 | 1.50 |
| SRR6028-150Y | 15 | ±30 | 9.5 | 2.52 | 22 | 78 | 1.70 | 1.30 |
| SRR6028-180Y | 18 | ±30 | 9 | 2.52 | 21 | 85 | 1.50 | 1.10 |
| SRR6028-220Y | 22 | ±30 | 8.5 | 2.52 | 20 | 115 | 1.40 | 1.08 |
| SRR6028-270Y | 27 | ±30 | 9 | 2.52 | 19 | 130 | 1.20 | 1.00 |
| SRR6028-330Y | 33 | ±30 | 10 | 2.52 | 18 | 155 | 1.15 | 0.92 |
| SRR6028-390Y | 39 | ±30 | 10 | 2.52 | 17 | 195 | 1.00 | 0.75 |
| SRR6028-470Y | 47 | ±30 | 10 | 2.52 | 16 | 235 | 0.92 | 0.72 |
| SRR6028-560Y | 56 | ±30 | 10 | 0.796 | 15 | 260 | 0.85 | 0.65 |
| SRR6028-680Y | 68 | ±30 | 11 | 0.796 | 15 | 300 | 0.80 | 0.60 |
| SRR6028-820Y | 82 | ±30 | 9 | 0.796 | 14 | 400 | 0.70 | 0.56 |
| SRR6028-101Y | 100 | ±30 | 8.5 | 0.796 | 14 | 500 | 0.58 | 0.55 |
| SRR6028-151Y | 150 | ±30 | 12 | 0.796 | 13 | 680 | 0.50 | 0.42 |
| SRR6028-221Y | 220 | ±30 | 15 | 0.796 | 12 | 820 | 0.45 | 0.36 |
| SRR6028-331Y | 330 | ±30 | 11 | 0.796 | 10 | 1400 | 0.37 | 0.27 |
| SRR6028-471Y | 470 | ±30 | 11 | 0.796 | 9 | 2100 | 0.27 | 0.22 |
| SRR6028-681Y | 680 | ±30 | 13 | 0.796 | 8 | 3100 | 0.22 | 0.20 |
| SRR6028-102Y | 1000 | ±30 | 32 | 0.252 | 7 | 4500 | 0.15 | 0.17 |

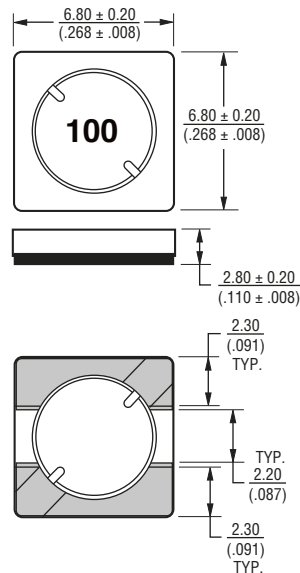
General Specifications

Test Voltage 0.1 V
 Reflow Soldering ... 230 °C, 50 sec. max.
 Operating Temp. -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

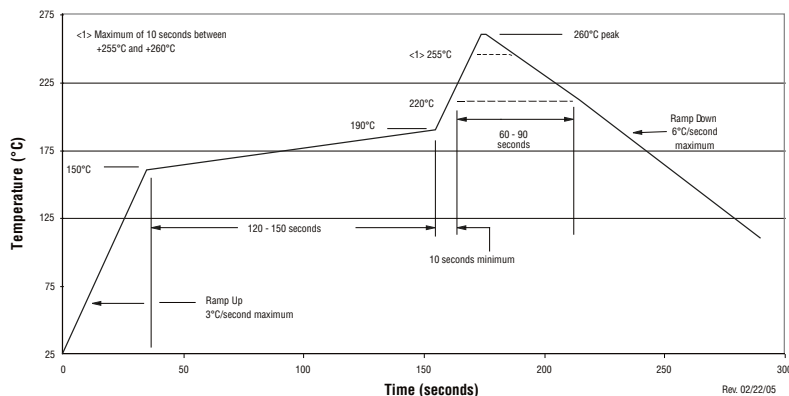
Materials

Core Ferrite
 Wire Enameled copper
 Adhesive..... Epoxy resin
 Terminal..... Ag/Ni/Sn
 Rated Current
 Ind. drop 35 % typ. at Isat
 Temperature Rise..... 30 °C typ.
 at rated Irms
 Packaging..... 500 pcs. per reel

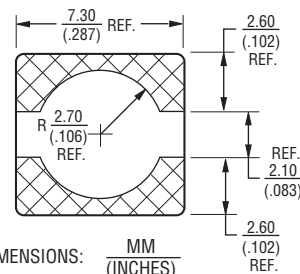
Product Dimensions



Soldering Profile



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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