



**THE DATASHEET OF
SRR1260A-270M**





Features

- Shielded construction
- Inductance range: 1 to 1000 μ H
- Heating current up to 9.4 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRR1260A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

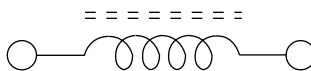
| Bourns Part Number | Inductance | | | Q (Ref.) | Test Freq. (MHz) | SRF (MHz) Typ. | DCR (m Ω) Max. | I rms (A) | I sat (A) |
|--------------------|--------------|----------|------------------------|----------|------------------|----------------|------------------------|-----------|-----------|
| | L (μ H) | Tol. (%) | Test Frequency/Voltage | | | | | | |
| SRR1260A-1R0Y | 1.0 | \pm 30 | 100 KHz/0.1 V | 26 | 7.96 | 100 | 7.8 | 9.4 | 10.0 |
| SRR1260A-1R2Y | 1.2 | \pm 30 | 100 KHz/0.1 V | 18 | 7.96 | 91.1 | 8.0 | 9.2 | 9.8 |
| SRR1260A-1R5Y | 1.5 | \pm 30 | 100 KHz/0.1 V | 24 | 7.96 | 86 | 9.5 | 8.8 | 9.0 |
| SRR1260A-2R2Y | 2.2 | \pm 30 | 100 KHz/0.1 V | 22 | 7.96 | 70 | 10.5 | 8.2 | 8.5 |
| SRR1260A-2R4Y | 2.4 | \pm 30 | 100 KHz/0.1 V | 18 | 7.96 | 63.8 | 11.5 | 7.8 | 8.0 |
| SRR1260A-3R3Y | 3.3 | \pm 30 | 100 KHz/0.1 V | 20 | 7.96 | 40 | 12.0 | 7.6 | 7.8 |
| SRR1260A-3R5Y | 3.5 | \pm 30 | 100 KHz/0.1 V | 22 | 7.96 | 37.6 | 13.0 | 7.5 | 7.6 |
| SRR1260A-4R7Y | 4.7 | \pm 30 | 100 KHz/0.1 V | 19 | 7.96 | 36.7 | 15.5 | 6.8 | 7.0 |
| SRR1260A-5R6Y | 5.6 | \pm 30 | 100 KHz/0.1 V | 19 | 7.96 | 33 | 16.2 | 6.7 | 6.9 |
| SRR1260A-6R1Y | 6.1 | \pm 30 | 100 KHz/0.1 V | 21 | 7.96 | 29.8 | 17.0 | 6.6 | 6.8 |
| SRR1260A-6R8Y | 6.8 | \pm 30 | 100 KHz/0.1 V | 20 | 7.96 | 28.2 | 18.0 | 6.3 | 6.5 |
| SRR1260A-7R6Y | 7.6 | \pm 30 | 100 KHz/0.1 V | 16 | 7.96 | 27.9 | 19.0 | 6.0 | 6.2 |
| SRR1260A-8R2Y | 8.2 | \pm 30 | 100 KHz/0.1 V | 18 | 7.96 | 24 | 19.5 | 5.7 | 5.8 |
| SRR1260A-100M | 10 | \pm 20 | 1 KHz/1 V | 32 | 2.52 | 21 | 20.0 | 5.5 | 5.5 |
| SRR1260A-120M | 12 | \pm 20 | 1 KHz/1 V | 27 | 2.52 | 19.4 | 23.0 | 5.2 | 5.0 |
| SRR1260A-150M | 15 | \pm 20 | 1 KHz/1 V | 25 | 2.52 | 17.6 | 27.0 | 5.0 | 4.6 |
| SRR1260A-180M | 18 | \pm 20 | 1 KHz/1 V | 28 | 2.52 | 15.5 | 36.0 | 4.2 | 3.9 |
| SRR1260A-220M | 22 | \pm 20 | 1 KHz/1 V | 29 | 2.52 | 13.4 | 43.0 | 4.0 | 3.7 |
| SRR1260A-270M | 27 | \pm 20 | 1 KHz/1 V | 26 | 2.52 | 12.7 | 45.0 | 3.6 | 3.3 |
| SRR1260A-330M | 33 | \pm 20 | 1 KHz/1 V | 27 | 2.52 | 9.97 | 60.0 | 3.0 | 2.8 |
| SRR1260A-390M | 39 | \pm 20 | 1 KHz/1 V | 22 | 2.52 | 10.4 | 70.0 | 2.8 | 2.7 |
| SRR1260A-470M | 47 | \pm 20 | 1 KHz/1 V | 22 | 2.52 | 7.63 | 86.0 | 2.6 | 2.5 |
| SRR1260A-560M | 56 | \pm 20 | 1 KHz/1 V | 24 | 2.52 | 7.92 | 100 | 2.3 | 2.2 |
| SRR1260A-680M | 68 | \pm 20 | 1 KHz/1 V | 22 | 2.52 | 7.43 | 110 | 2.1 | 2.1 |
| SRR1260A-820M | 82 | \pm 20 | 1 KHz/1 V | 25 | 2.52 | 6.85 | 145 | 1.95 | 1.9 |
| SRR1260A-101M | 100 | \pm 20 | 1 KHz/1 V | 26 | 0.796 | 6.07 | 180 | 1.7 | 1.7 |
| SRR1260A-121K | 120 | \pm 10 | 1 KHz/1 V | 26 | 0.796 | 5.5 | 210 | 1.65 | 1.65 |
| SRR1260A-151K | 150 | \pm 10 | 1 KHz/1 V | 20 | 0.796 | 5 | 260 | 1.55 | 1.55 |
| SRR1260A-181K | 180 | \pm 10 | 1 KHz/1 V | 26 | 0.796 | 4.5 | 320 | 1.4 | 1.4 |
| SRR1260A-221K | 220 | \pm 10 | 1 KHz/1 V | 22 | 0.796 | 4.2 | 380 | 1.38 | 1.3 |
| SRR1260A-271K | 270 | \pm 10 | 1 KHz/1 V | 20 | 0.796 | 3.6 | 450 | 1.3 | 1.2 |
| SRR1260A-331K | 330 | \pm 10 | 1 KHz/1 V | 22 | 0.796 | 3.2 | 580 | 1.15 | 1.1 |
| SRR1260A-391K | 390 | \pm 10 | 1 KHz/1 V | 20 | 0.796 | 2.8 | 700 | 1.08 | 1.0 |
| SRR1260A-471K | 470 | \pm 10 | 1 KHz/1 V | 18 | 0.796 | 2.6 | 820 | 0.95 | 0.9 |
| SRR1260A-561K | 560 | \pm 10 | 1 KHz/1 V | 22 | 0.796 | 2.4 | 1000 | 0.88 | 0.8 |
| SRR1260A-681K | 680 | \pm 10 | 1 KHz/1 V | 18 | 0.796 | 2.2 | 1150 | 0.8 | 0.75 |
| SRR1260A-821K | 820 | \pm 10 | 1 KHz/1 V | 20 | 0.796 | 2 | 1500 | 0.73 | 0.63 |
| SRR1260A-102K | 1000 | \pm 10 | 1 KHz/1 V | 30 | 0.252 | 1.8 | 1700 | 0.68 | 0.6 |

How to Order

SRR1260A - 100M

Model _____
Value Code (see table) _____

Electrical Schematic



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

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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.

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General Specifications

Operating Temperature-40 °C to +125 °C
(Temperature rise included)
Storage Temperature-40 °C to +125 °C
Temperature Rise40 °C typ. at rated I rms
Inductance Drop 25 % typ. at I sat

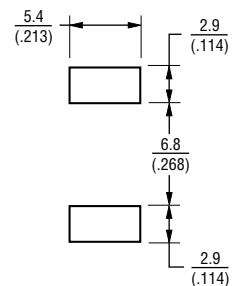
Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Packaging 600 pcs. per reel

Product Dimensions



Recommended Layout

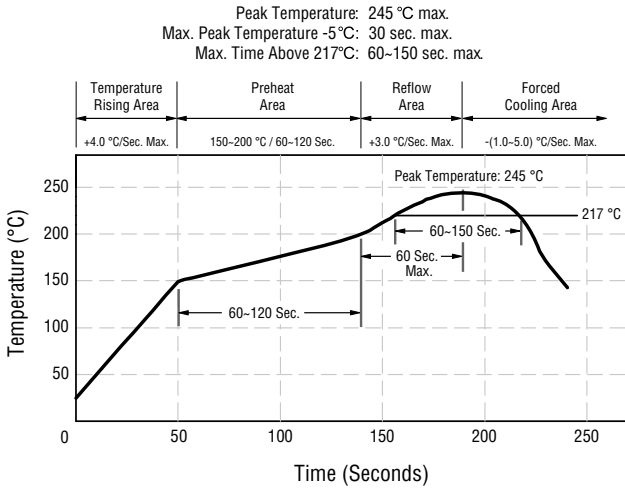


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

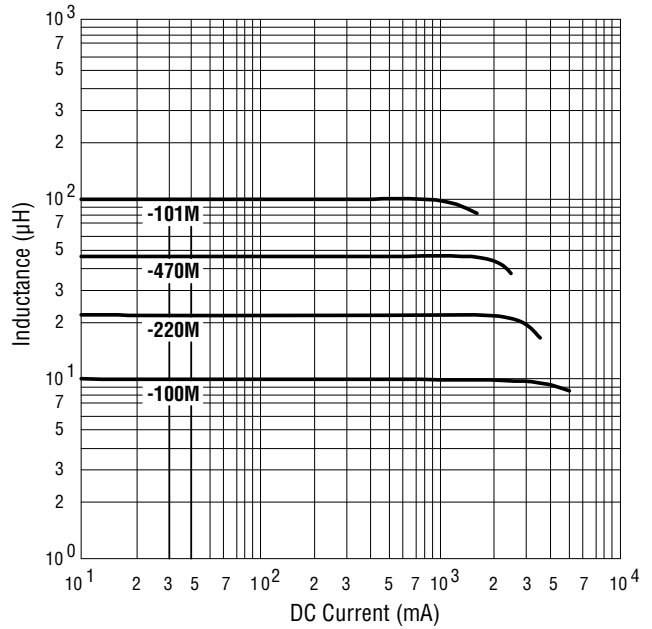
SRR1260A Series - Shielded Power Inductors



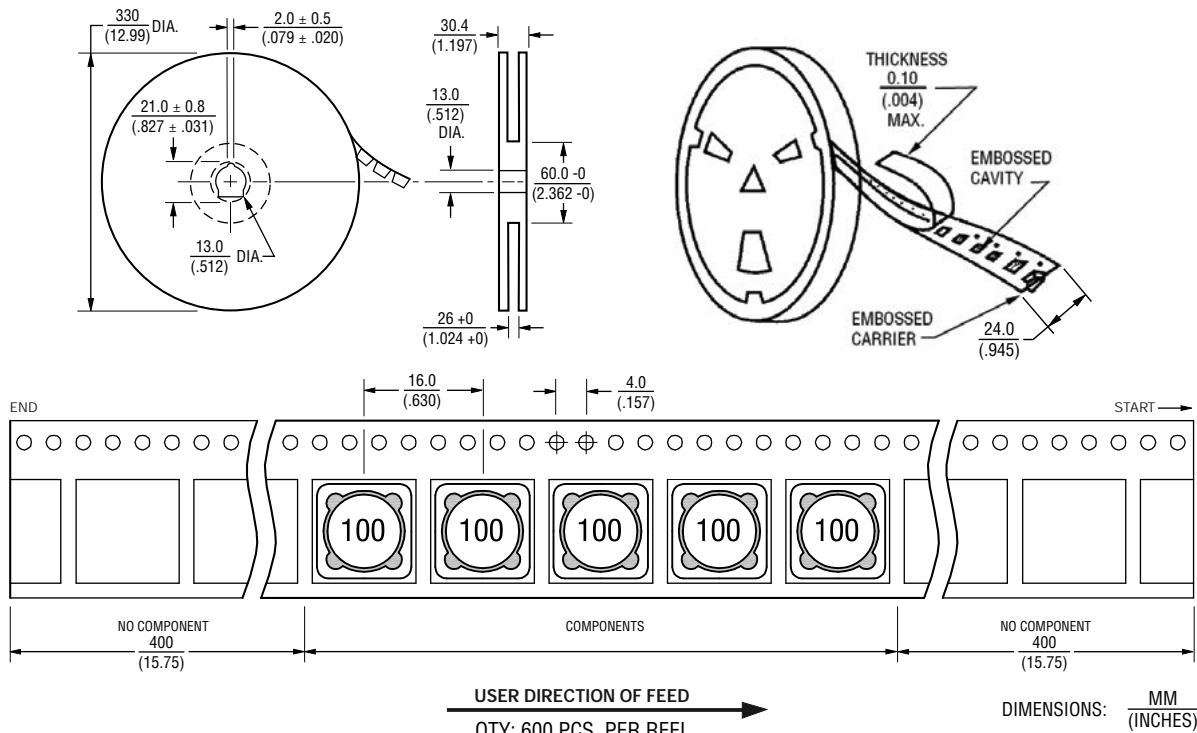
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



REV. 11/19

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