

Features

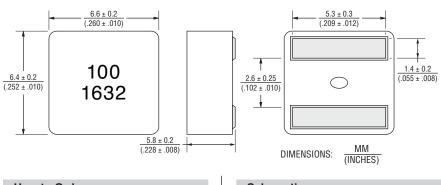
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP6060FA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

| | Inductance @ 100 kHz / 1 V | | SRF | DCR | DCR | l rms (A) Typ. | | Isat |
|-----------------------|-------------------------------|--------|---------------|--------------|--------------|---------------------|---------------------|-------------|
| Bourns Part Number | L (µH) | Tol. % | (MHz) Typ. | (mΩ) Typ. | (mΩ) Max. | 20 °C Temp. Rise | 40 °C Temp. Rise | (A) Typ. |
| SRP6060FA-2R2M | 2.20 | ± 20 % | 30 | 7.0 | 7.8 | 11.0 | 14.0 | 14.0 |
| SRP6060FA-4R7M | 4.70 | ± 20 % | 24 | 13.1 | 14.4 | 8.0 | 11.0 | 10.5 |
| SRP6060FA-5R6M | 5.60 | ± 20 % | 18 | 14.3 | 15.8 | 7.5 | 10.0 | 10.0 |
| SRP6060FA-6R8M | 6.80 | ± 20 % | 16 | 18.9 | 20.8 | 7.0 | 9.0 | 9.2 |
| SRP6060FA-8R2M | 8.20 | ± 20 % | 14 | 22.5 | 24.8 | 6.0 | 8.0 | 8.5 |
| SRP6060FA-100M | 10.0 | ± 20 % | 12 | 26.6 | 29.3 | 5.0 | 7.0 | 7.6 |
| SRP6060FA-150M | 15.0 | ± 20 % | 11 | 39.0 | 43.0 | 4.5 | 6.0 | 5.8 |
| SRP6060FA-220M | 22.0 | ± 20 % | 10 | 55.0 | 60.5 | 3.8 | 5.0 | 5.6 |

Product Dimensions



| How to Order | |
|-----------------------|------------------|
| | SRP6060FA - 100M |
| Model — | |
| Value Code (see table | e) |

Schematic



General Specifications

Operating Temperature

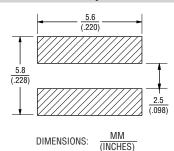
| operating remperature |
|--|
| 55 °C to +155 °C |
| (Temperature rise included) |
| Storage Temperature (Component) |
| 55 °C to +155 °C |
| Rated Current Inductance drops |
| 30 % at Isat |
| Temperature Rise20 or 40 °C |
| at rated Irms ¹ |
| MSL1 |
| ESD Classification (HBM)N/A |
| Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all |

affect the part temperature. Part temperature should be verified in the end application.

Materials

| Core | Metal alloy powder |
|-------------------|--------------------------|
| Wire | Enameled copper |
| Terminal Finish . | Sn |
| Packaging 7 | 50 pcs. per 13-inch reel |

Recommended Layout





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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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less. Specifications are subject to change without notice.

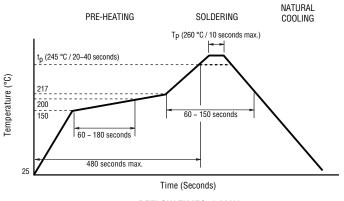
Users should verify actual device performance in their specific applications

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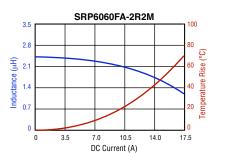
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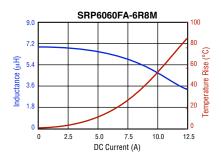
Soldering Profile

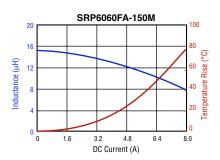


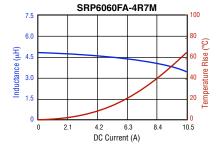


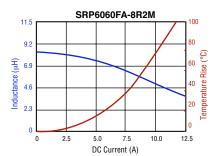
L vs. I Charts

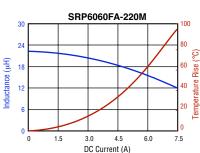


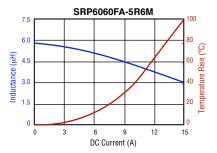


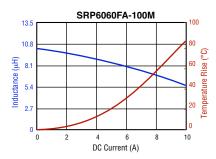












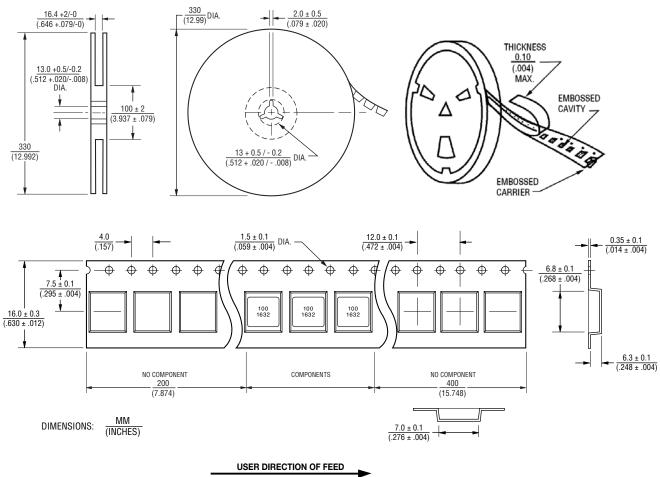
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Packaging Specifications



QTY: 750 PCS PER REEL

REV. 06/20

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