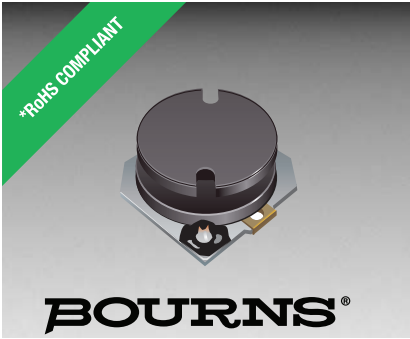




**THE DATASHEET OF
SDR1105-101KL**





Features

- Available in E6 series
- Low height of only 4.8 mm
- High I rms of 4.0 amps
- RoHS compliant*

Applications

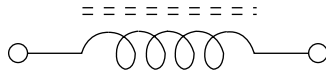
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

SDR1105 Series - SMD Power Inductors

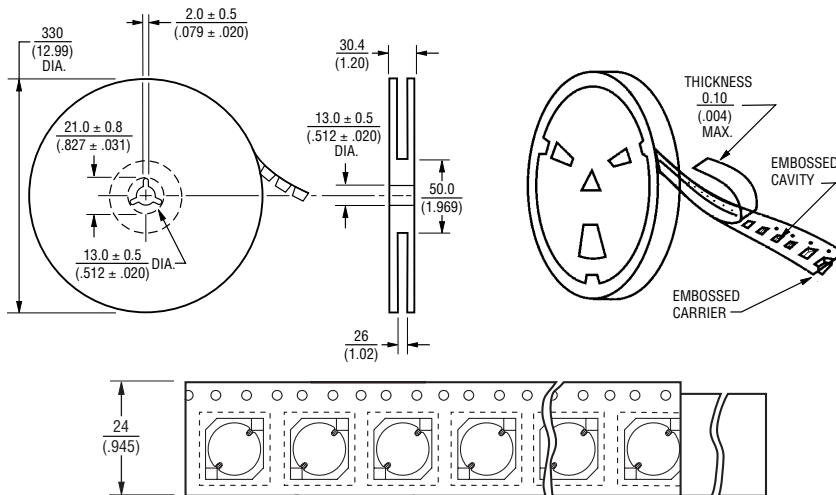
Electrical Specifications

| Bourns Part Number | Inductance 1 kHz | | RDC Max. (Ω) | I rms Max. (A) | I sat Typ. (A) |
|--------------------|---------------------|--------|--------------------|----------------------|----------------------|
| | (μH) | Tol. % | | | |
| SDR1105-100ML | 10 | ± 20 | 0.045 | 4.00 | 8.0 |
| SDR1105-120ML | 12 | ± 20 | 0.048 | 3.80 | 8.0 |
| SDR1105-150ML | 15 | ± 20 | 0.052 | 3.50 | 8.0 |
| SDR1105-180ML | 18 | ± 20 | 0.070 | 3.30 | 7.0 |
| SDR1105-220ML | 22 | ± 20 | 0.080 | 3.00 | 6.5 |
| SDR1105-270ML | 27 | ± 20 | 0.090 | 2.80 | 5.0 |
| SDR1105-330KL | 33 | ± 10 | 0.100 | 2.60 | 5.0 |
| SDR1105-390KL | 39 | ± 10 | 0.140 | 2.40 | 4.5 |
| SDR1105-470KL | 47 | ± 10 | 0.170 | 2.20 | 4.0 |
| SDR1105-560KL | 56 | ± 10 | 0.200 | 2.00 | 3.5 |
| SDR1105-680KL | 68 | ± 10 | 0.210 | 1.80 | 3.5 |
| SDR1105-820KL | 82 | ± 10 | 0.300 | 1.60 | 3.0 |
| SDR1105-101KL | 100 | ± 10 | 0.320 | 1.50 | 2.8 |
| SDR1105-151KL | 150 | ± 10 | 0.500 | 1.20 | 2.3 |
| SDR1105-201KL | 200 | ± 10 | 0.650 | 1.00 | 1.8 |

Electrical Schematic



Packaging Specifications



QTY: 800 PCS. PER REEL DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

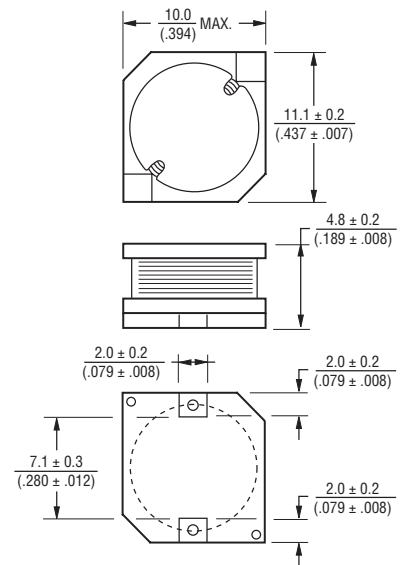
General Specifications

Test Frequency 1 KHz
 Test Voltage 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 5 sec.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

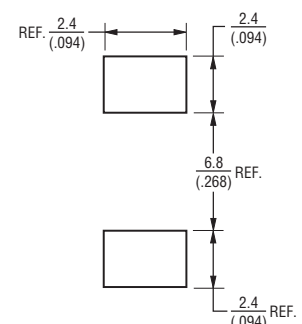
Materials

Core Ferrite DR
 Wire Enameled copper
 Base FR-4
 Terminal Cu/Ni/Au
 Rated Current..Ind. drop 10 % typ. at Isat
 Temperature Rise
 40 °C max. at rated I rms
 Packaging 800 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



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

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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REV. 08/20

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