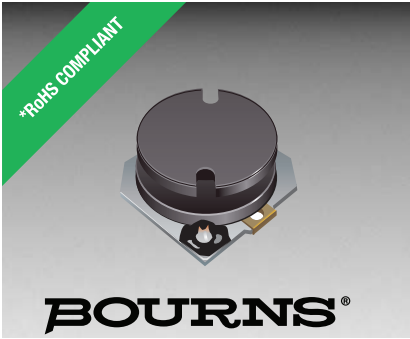




**THE DATASHEET OF  
SDR1105-270ML**





### Features

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

### Applications

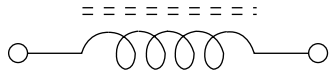
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs

## SDR1105 Series - SMD Power Inductors

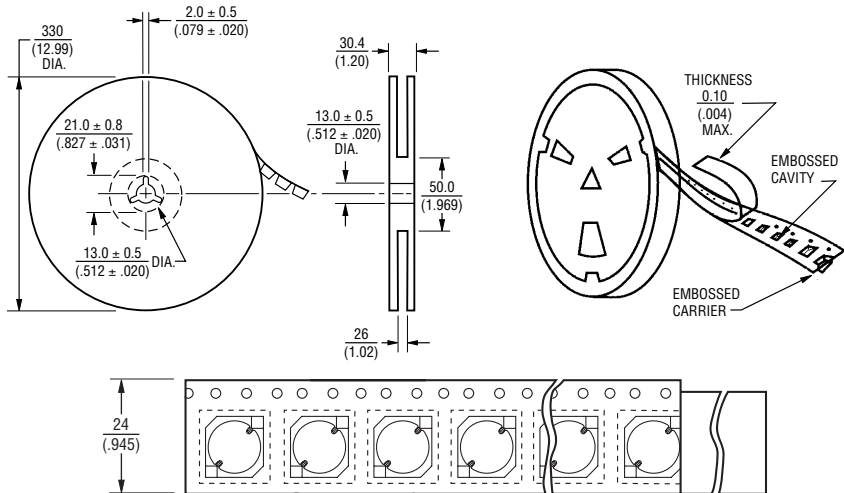
### Electrical Specifications

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

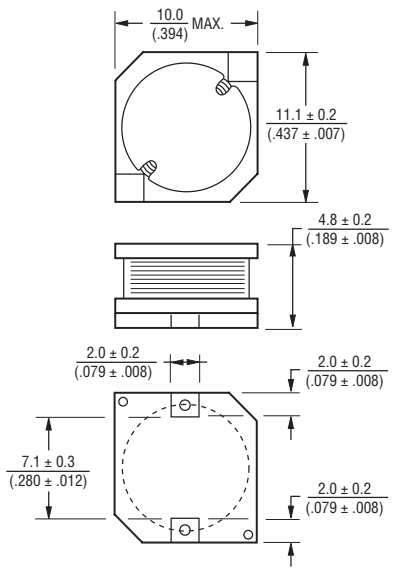
### General Specifications

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

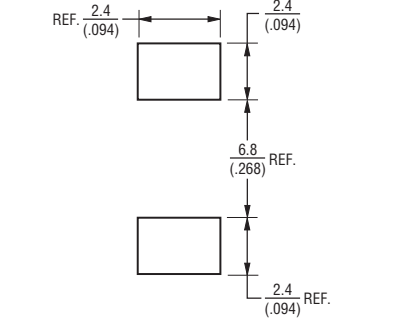
### Materials

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](http://www.P65Warnings.ca.gov)**

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