

## Features

- Available in E6 values
- Range from 1.0  $\mu$ H to 1000  $\mu$ H
- Lead free
- RoHS compliant\*

## Applications

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

# SDR7030 Series - SMD Power Inductors

## Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. ( $\Omega$ )	I rms Max. (A)	I sat Typ. (A)
	( $\mu$ H)	Tol. %						
SDR7030-1R0M	1.0	$\pm 20$	18	7.96	113	0.022	3.00	4.30
SDR7030-1R5M	1.5	$\pm 20$	17	7.96	100	0.027	2.75	3.60
SDR7030-2R2M	2.2	$\pm 20$	17	7.96	80	0.030	2.60	3.20
SDR7030-3R5M	3.5	$\pm 20$	17	7.96	59	0.038	2.20	2.60
SDR7030-4R7M	4.7	$\pm 20$	14	7.96	43	0.048	1.85	2.25
SDR7030-6R2M	6.2	$\pm 20$	17	7.96	41	0.058	1.65	2.00
SDR7030-100M	10.0	$\pm 20$	16	2.52	35	0.075	1.50	1.60
SDR7030-150M	15.0	$\pm 20$	14	2.52	33	0.115	1.20	1.30
SDR7030-220M	22.0	$\pm 20$	14	2.52	32	0.160	1.02	1.10
SDR7030-330M	33.0	$\pm 20$	13	2.52	24	0.230	0.85	0.90
SDR7030-470K	47.0	$\pm 10$	12	2.52	18	0.340	0.70	0.78
SDR7030-680K	68.0	$\pm 10$	12	2.52	16	0.480	0.58	0.64
SDR7030-101K	100.0	$\pm 10$	18	0.796	15	0.720	0.46	0.52
SDR7030-151K	150.0	$\pm 10$	18	0.796	12	0.920	0.40	0.42
SDR7030-221K	220.0	$\pm 10$	23	0.796	9	1.600	0.32	0.34
SDR7030-331K	330.0	$\pm 10$	24	0.796	7	2.200	0.26	0.28
SDR7030-471K	470.0	$\pm 10$	30	0.796	6	2.800	0.22	0.23
SDR7030-681K	680.0	$\pm 10$	28	0.796	5	4.350	0.18	0.18
SDR7030-102K	1000.0	$\pm 10$	66	0.252	4	6.200	0.15	0.15

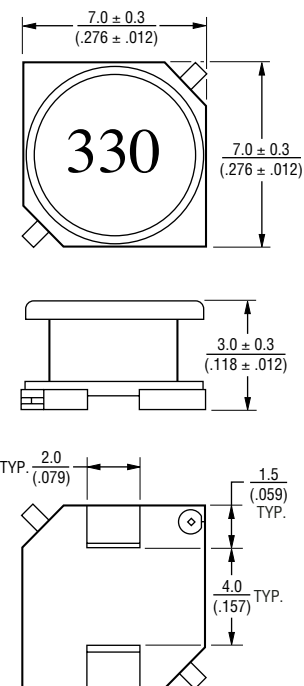
## General Specifications

Test Voltage.....0.1 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 10 sec.

## Materials

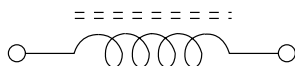
Core .....Ferrite DR  
 Wire .....Enameled copper wire 130  
 Terminal.....Cu/Ni/Sn  
 Rated Current  
 .....Ind. drop 10 % typ. at Isat  
 Temperature Rise .....30 °C max.  
 at rated I rms  
 Packaging .....1500 pcs. per reel

## Product Dimensions

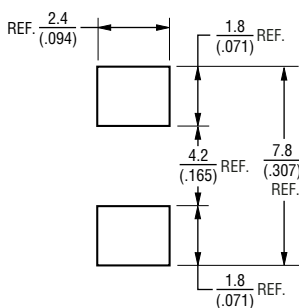


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Electrical Schematic



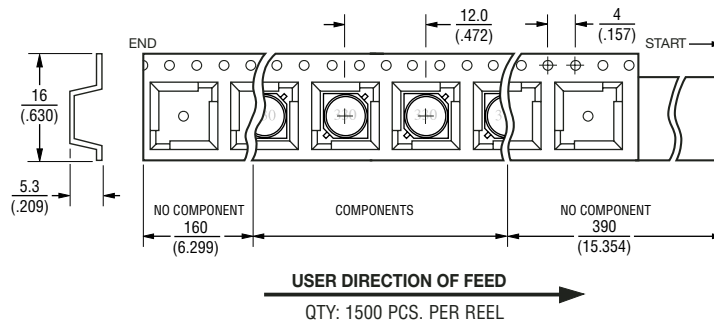
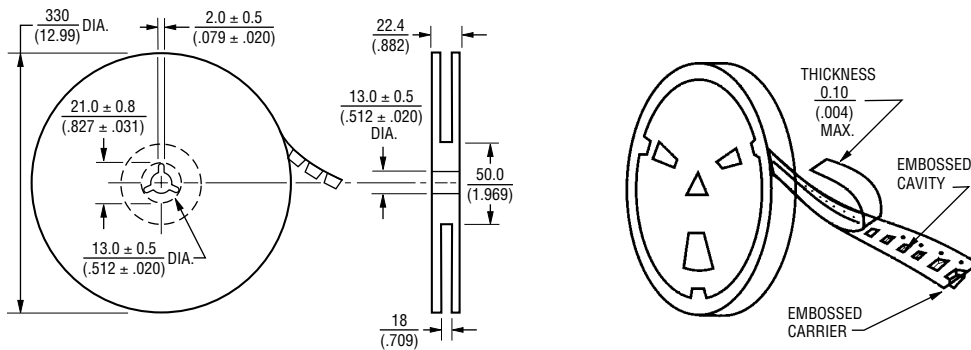
## Recommended Layout



# SDR7030 Series - SMD Power Inductors

**BOURNS®**

## Packaging Specifications



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

REV. 05/05

Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.