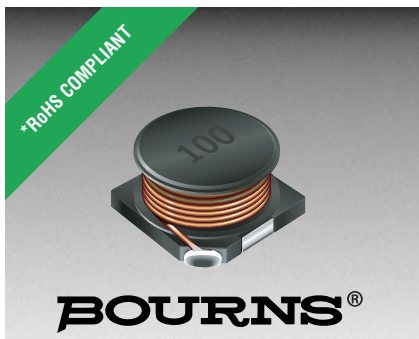




Features

- Available in E6 values
- Current rating to 3.8 amps
- Lead free
- RoHS compliant*

Applications

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

SDR7045 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SDR7045-1R2M	1.2	± 20	25	7.96	90	0.022	3.80	5.00
SDR7045-1R5M	1.5	± 20	26	7.96	109	0.027	3.50	4.50
SDR7045-2R2M	2.2	± 20	24	7.96	79	0.032	3.30	4.00
SDR7045-3R3M	3.3	± 20	23	7.96	47	0.036	2.80	3.70
SDR7045-4R7M	4.7	± 20	23	7.96	38	0.042	2.60	3.40
SDR7045-6R8M	6.8	± 20	22	7.96	35	0.054	2.25	2.70
SDR7045-100M	10.0	± 20	28	2.52	23	0.070	2.00	2.30
SDR7045-150M	15.0	± 20	24	2.52	19	0.086	1.60	1.90
SDR7045-220M	22.0	± 20	26	2.52	18	0.125	1.40	1.62
SDR7045-330M	33.0	± 20	20	2.52	18	0.150	1.22	1.32
SDR7045-470K	47.0	± 10	21	2.52	11	0.230	1.00	1.10
SDR7045-680K	68.0	± 10	17	2.52	11	0.280	0.90	0.92
SDR7045-101K	100.0	± 10	17	0.796	10	0.430	0.75	0.72
SDR7045-151K	150.0	± 10	17	0.796	8	0.580	0.62	0.58
SDR7045-221K	220.0	± 10	22	0.796	6	0.930	0.50	0.48
SDR7045-331K	330.0	± 10	20	0.796	6	1.240	0.42	0.40
SDR7045-471K	470.0	± 10	20	0.796	4	1.850	0.34	0.30
SDR7045-681K	680.0	± 10	18	0.796	4	2.400	0.30	0.26
SDR7045-102K	1000.0	± 10	48	0.252	3	4.000	0.22	0.20

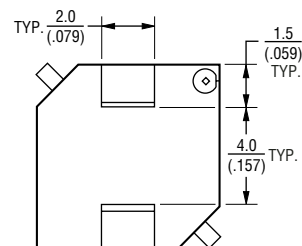
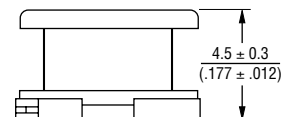
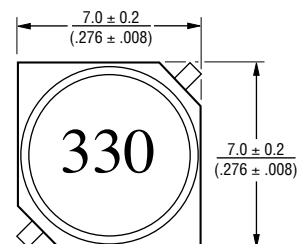
General Specifications

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

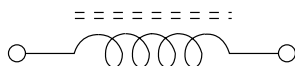
CoreFerrite DR
 WireEnameled copper wire 130
 Terminal.....Cu/Ni/Sn
 Rated Current
Ind. drop 10 % typ. at Isat
 Temperature Rise40 °C max.
 at rated Irms
 Packaging1000 pcs. per reel

Product Dimensions

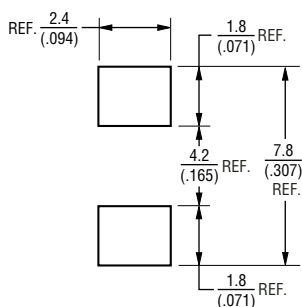


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Schematic



Recommended Layout



BOURNS®

Technical drawing of a 10-cent coin showing front, reverse, and profile views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Diameter: 330 (12.99) DIA.
- Inner Circle Diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Inner Circle Diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.

Reverse View Dimensions:

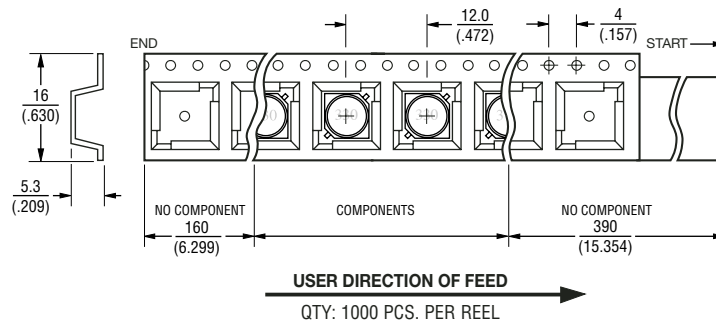
- Overall Diameter: 330 (12.99) DIA.
- Inner Circle Diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Inner Circle Diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.

Profile View Dimensions:

- Thickness: 2.0 $\pm$ 0.5 (.079 $\pm$.020)
- Radius: 22.4 (.882)
- Inner Diameter: 13.0 $\pm$ 0.5 (.512 $\pm$.020) DIA.
- Inner Diameter: 50.0 (1.969)
- Inner Diameter: 18 (.709)

Back View Dimensions:

- Thickness: 0.10 (.004) MAX.
- Embossed Cavity
- Embossed Carrier



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