

Features

- Available in E6 values
- Current rating to 4.8 amps
- Mounting height 4.8 mm maximum
- RoHS compliant*

Applications

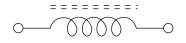
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - Camcorders
 - · LCD TVs

SDR1045 Series - SMD Power Inductors

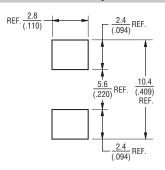
Electrical Specifications

D	Inductance 100 kHz			Test	SRF	RDC	l rms	l sat
Bourns Part Number	(μH)	Tol. %	Q Typ.	Frequency (MHz)	Min. (MHz)	Max. (Ω)	Max. (A)	Typ. (A)
SDR1045-2R7M	2.7	± 20	25	7.96	68.7	0.026	4.80	6.20
SDR1045-4R5M	4.5	± 20	25	7.96	44.2	0.033	4.20	5.20
SDR1045-6R8M	6.8	± 20	22	7.96	35.8	0.040	3.50	4.20
SDR1045-100M	10.0	± 20	26	2.52	27.8	0.064	3.20	3.60
SDR1045-150M	15.0	± 20	26	2.52	23.7	0.100	2.50	3.00
SDR1045-220M	22.0	± 20	22	2.52	19.4	0.145	2.20	2.60
SDR1045-330M	33.0	± 20	20	2.52	15.8	0.220	1.90	2.10
SDR1045-470M	47.0	± 20	21	2.52	13.6	0.270	1.60	1.85
SDR1045-680M	68.0	± 20	21	2.52	11.1	0.360	1.30	1.50
SDR1045-101K	100.0	± 10	14	0.796	9.7	0.540	1.10	1.30
SDR1045-151K	150.0	± 10	16	0.796	7.1	0.700	0.85	1.05
SDR1045-221K	220.0	± 10	15	0.796	6.4	1.150	0.72	0.85
SDR1045-331K	330.0	± 10	12	0.796	4.6	1.700	0.62	0.70
SDR1045-471K	470.0	± 10	12	0.796	4.2	2.250	0.52	0.58
SDR1045-681K	680.0	± 10	13	0.796	3.6	3.300	0.43	0.46
SDR1045-102K	1000.0	± 10	25	0.252	2.9	4.700	0.38	0.40

Electrical Schematic



Recommended Layout

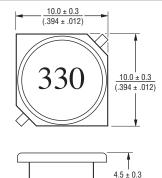


General Specifications

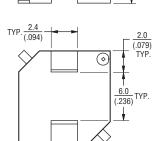
Materials

Temperature Rise40 °C max. at rated Irms Packaging.......700 pcs. per reel

Product Dimensions



 $\overline{(.177 \pm .012)}$





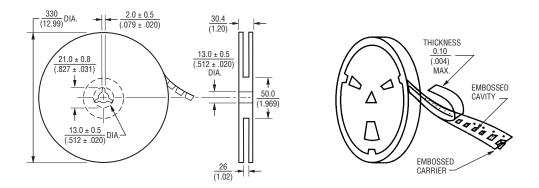
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

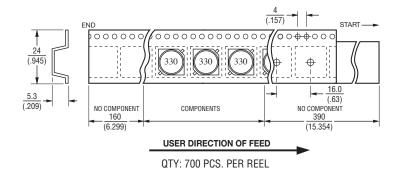
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

SDR1045 Series - SMD Power Inductors

BOURNS®

Packaging Specifications





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

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