

Features

- Available in E6 values
- Current rating to 7.2 amps
- RoHS compliant*

Applications

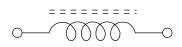
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

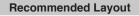
SDR1305 Series - SMD Power Inductors

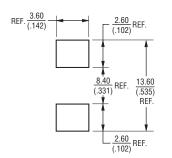
Electrical Specifications

	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)	Тур. (А)
SDR1305-2R5Y	2.5	± 25	19	7.96	61	0.0098	7.20	8.00
SDR1305-3R5Y	3.5	± 25	20	7.96	43	0.0105	6.00	7.00
SDR1305-4R6Y	4.6	± 25	18	7.96	35	0.0165	5.20	6.00
SDR1305-6R8Y	6.8	± 25	17	7.96	32	0.0240	4.30	5.20
SDR1305-100M	10.0	± 20	35	2.52	27	0.0370	3.60	4.40
SDR1305-150M	15.0	± 20	28	2.52	24	0.0460	3.30	3.70
SDR1305-220M	22.0	± 20	27	2.52	20	0.0620	2.90	3.00
SDR1305-330M	33.0	± 20	23	2.52	16	0.0850	2.50	2.60
SDR1305-470M	47.0	± 20	24	2.52	13	0.1300	1.90	2.00
SDR1305-680M	68.0	± 20	22	2.52	11	0.1650	1.65	1.80
SDR1305-101K	100.0	± 10	20	0.796	11	0.2550	1.40	1.40
SDR1305-151K	150.0	± 10	17	0.796	8	0.3800	1.20	1.15
SDR1305-221K	220.0	± 10	16	0.796	7	0.5000	1.00	0.95
SDR1305-331K	330.0	± 10	11	0.796	6	0.7000	0.85	0.80
SDR1305-471K	470.0	± 10	14	0.796	4	1.1500	0.67	0.70
SDR1305-681K	680.0	± 10	12	0.796	3.5	1.4000	0.60	0.58
SDR1305-102K	1000.0	± 10	41	0.252	2.7	2.3500	0.46	0.47
SDR1045-102K	1000.0	± 10	25	0.252	2.9	4.700	0.38	0.40

Electrical Schematic







General Specifications

Test Voltage 10 mV Reflow Soldering .. 230 °C, 50 sec. max. Operating Temperature

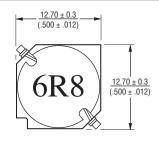
.....-40 °C to +125 °C (Temperature rise included) Storage Temperature..-40 °C to +125 °C Resistance to Soldering Heat260 °C for 10 sec.

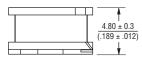
Materials

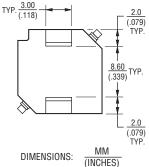
CoreFerrite DR WireEnamelled copper wire 130 Terminal.....Cu/Sn Rated Current

.....Ind. drop 25 % typ. at Isat Temperature Rise

Product Dimensions







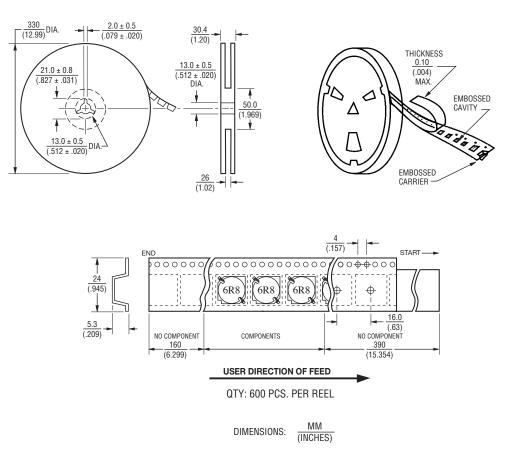
WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* 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

SDR1305 Series - SMD Power Inductors

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Packaging Specifications



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