

Features

- Available in E6 series
- Low profile of only 6.6 mm
- Inductance as low as 1 µH
- RoHS compliant*

Applications

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

SDR1806 Series - SMD Power Inductors

Electrical Specifications

	Inductance 100 kHz		_	Test	SRF	RDC	l rms	l sat
Bourns Part Number	(µH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	Max. (mΩ)	Max. (A)	Тур. (А)
SDR1806-1R0ML	1	± 20	21	7.96	100.0	4.0	10.0	30.00
SDR1806-2R2ML	2.2	± 20	22	7.96	55.0	6.8	9.00	22.00
SDR1806-3R3ML	3.3	± 20	22	7.96	40.0	9.8	7.60	17.00
SDR1806-5R6ML	5.6	± 20	23	7.96	30.0	15.0	6.40	12.80
SDR1806-8R2ML	8.2	± 20	22	7.96	27.0	20.0	7.00	9.40
SDR1806-100ML	10.0	± 20	22	2.52	25.0	25.0	5.30	10.00
SDR1806-150ML	15.0	± 20	20	2.52	17.0	35.0	4.30	8.00
SDR1806-220ML	22.0	± 20	22	2.52	13.0	45.0	3.60	6.70
SDR1806-330ML	33.0	± 20	24	2.52	11.0	68.0	3.00	5.40
SDR1806-470ML	47.0	± 20	22	2.52	9.0	95.0	2.50	4.60
SDR1806-680ML	68.0	± 20	22	2.52	8.0	130.0	2.10	3.80
SDR1806-101KL	100.0	± 10	25	0.796	7.0	190.0	1.70	3.20
SDR1806-151KL	150.0	± 10	23	0.796	5.0	270.0	1.40	2.60
SDR1806-221KL	220.0	± 10	20	0.796	4.5	420.0	1.10	2.20
SDR1806-331KL	330.0	± 10	18	0.796	3.5	580.0	1.00	1.80
SDR1806-471KL	470.0	± 10	15	0.796	3.0	820.0	0.80	1.50
SDR1806-681KL	680.0	± 10	12	0.796	2.5	1200.0	0.70	1.20
SDR1806-102KL	1000.0	± 10	10	0.252	2.0	1800.0	0.50	1.00

Electrical Schematic



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

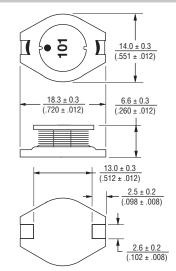
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific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

General Specifications

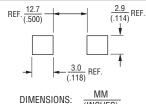
Test Voltage0.1 V Reflow Soldering 230 °C, 10 sec. max (In compliance with JEDEC, J-STD-020C, Table 4-2) Operating Temperature
-40 °C to +125 °C
(Temperature rise included) Storage Temperature40 °C to +125 °C
Resistance to Soldering Heat
Moisture Sensitivity Level 1
ESD Classification (HBM)N/A
Materials

CoreFerrite DR WireEnamelled copper BaseLCP E4008 Terminal......Cu/Sn Rated CurrentInd. drop 10 % typ. at Isat Temperature Rise

Product Dimensions



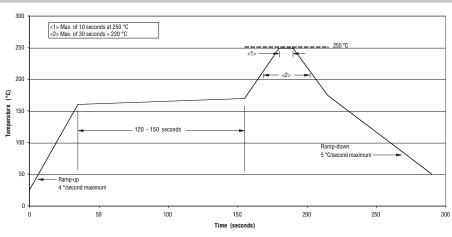
Recommended Layout



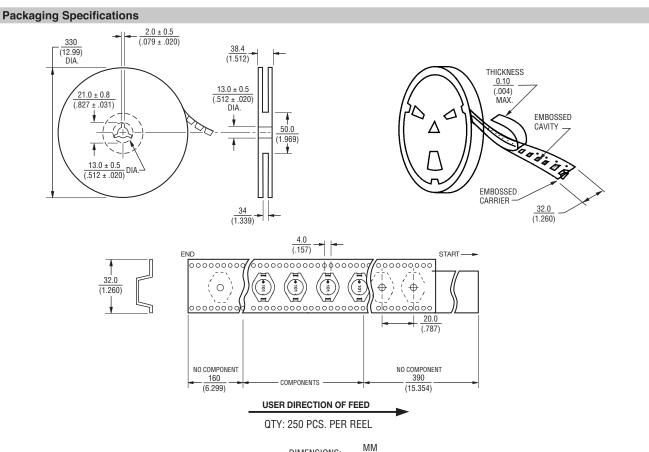
(INCHES)

SDR1806 Series - SMD Power Inductors

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Soldering Profile



DIMENSIONS: (INCHES)

REV. 03/18

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