

Excellent Integrated System Limited

Stocking Distributor

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[Bourns Inc.](#)
[SDR1806-100ML](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Features

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

Applications

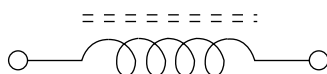
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car radios

SDR1806 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC Max. (m Ω)	I rms Max. (A)	I sat Typ. (A)
	(μ H)	Tol. %						
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



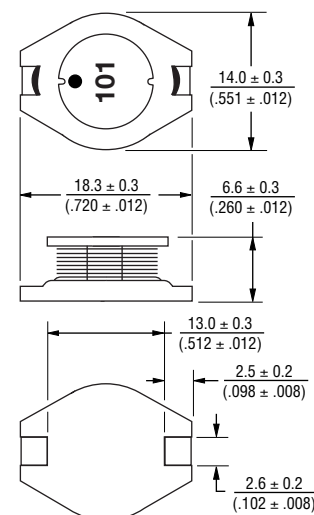
General Specifications

Test Voltage.....0.1 V
Reflow soldering.....250 °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 Temperature...-40 °C to +125 °C
Resistance to Soldering Heat
.....250 °C, 10 sec. max.

Materials

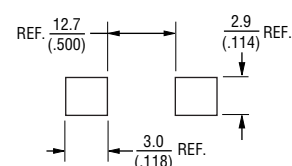
Core.....Ferrite DR
WireEnamelled copper
BaseLCP E4008
TerminalCu/Sn
Rated Current
.....Ind. drop 10 % typ. at Isat
Temperature Rise40 °C max.
.....at rated Irms
Packaging.....250 pcs. per reel

Product Dimensions



● = START OF WINDING

Recommended Layout



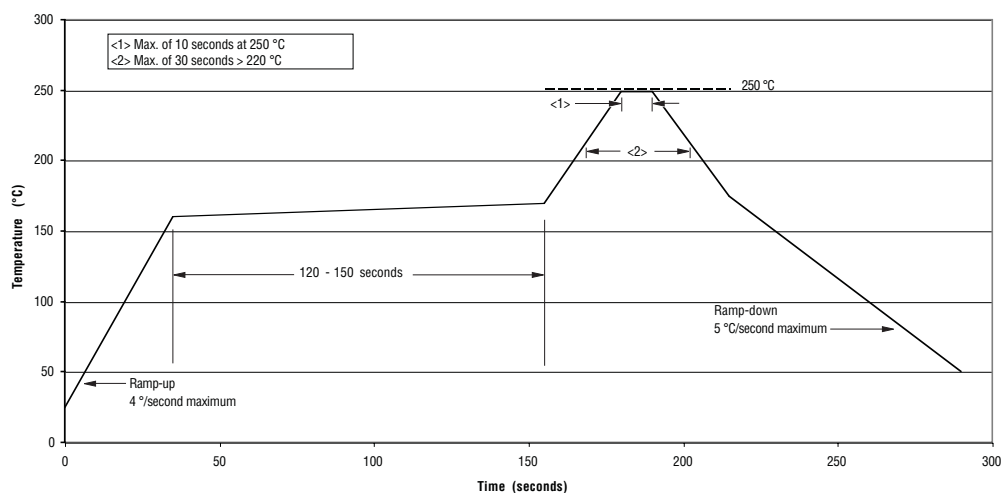
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

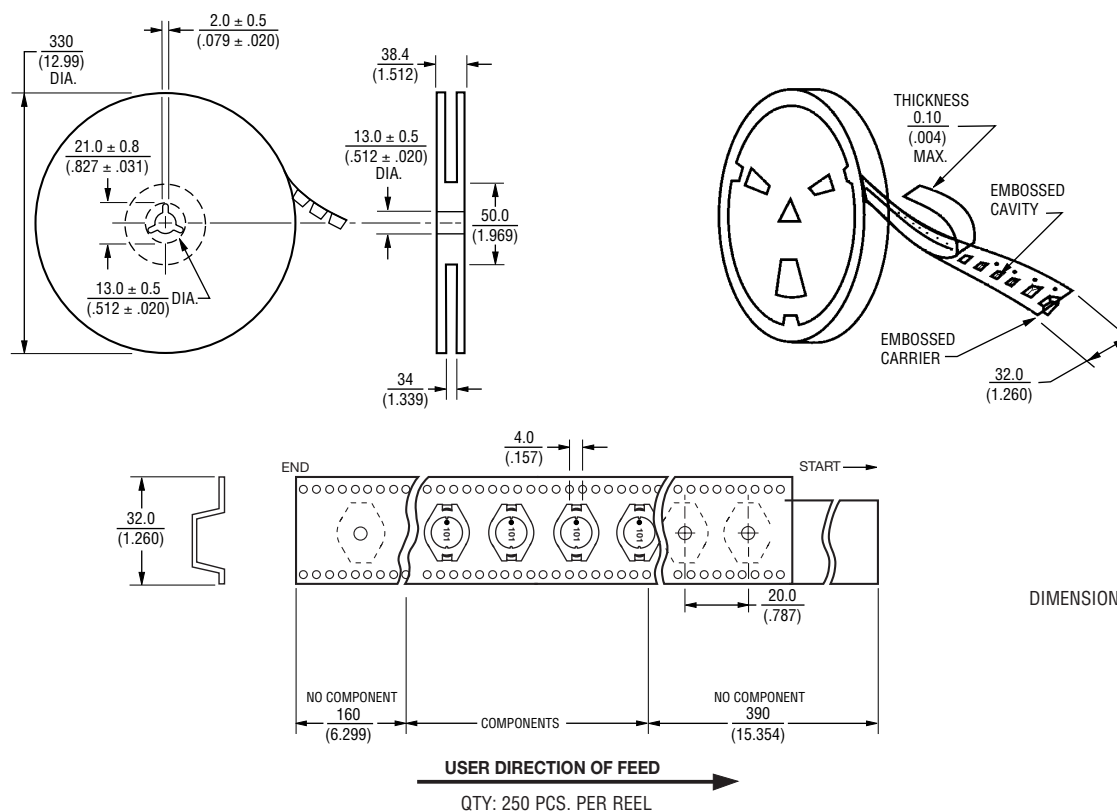
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BOURNS®

Soldering Profile



Packaging Specifications



REV. 09/10

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