



Features

- Available in E12 series
- Unit height of 6.8 mm
- Current up to 8 A Isat
- RoHS compliant*

Additional Information

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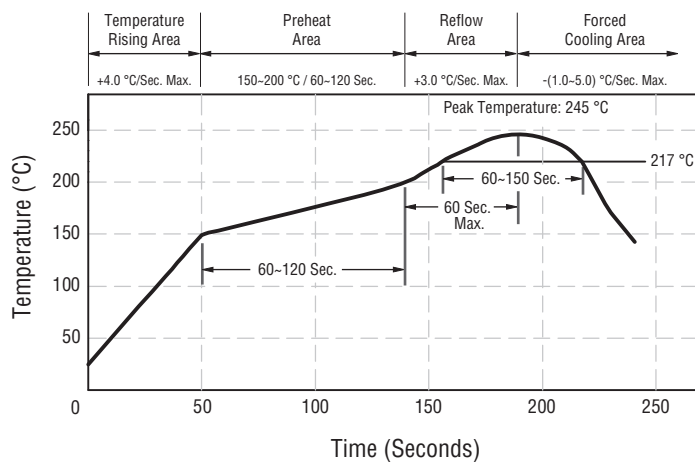
SRR1806 Series - Shielded Power Inductors

Electrical Characteristics

Bourns Part Number	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC ±20 % (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR1806-100M	10.0	± 20	56	2.52	19.0	0.033	4.00	8.20
SRR1806-150M	15.0	± 20	53	2.52	17.5	0.039	3.60	7.20
SRR1806-220M	22.0	± 20	51	2.52	16.0	0.053	3.00	6.20
SRR1806-330M	33.0	± 20	44	2.52	10.0	0.083	2.50	5.00
SRR1806-470M	47.0	± 20	40	2.52	8.0	0.110	2.00	4.20
SRR1806-680M	68.0	± 20	37	2.52	6.0	0.170	1.60	3.40
SRR1806-101M	100.0	± 20	40	0.796	4.6	0.270	1.30	2.60
SRR1806-151M	150.0	± 20	39	0.796	4.3	0.400	1.05	2.30
SRR1806-221M	220.0	± 20	29	0.796	3.5	0.510	1.00	1.90
SRR1806-331M	330.0	± 20	30	0.796	3.0	0.790	0.80	1.40
SRR1806-471M	470.0	± 20	27	0.796	2.4	1.000	0.64	1.30
SRR1806-681M	680.0	± 20	19	0.796	2.1	1.470	0.54	1.10
SRR1806-102M	1000.0	± 20	46	0.252	1.5	2.160	0.45	0.90

Soldering Profile

Peak Temperature: 245 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60-150 sec. max.



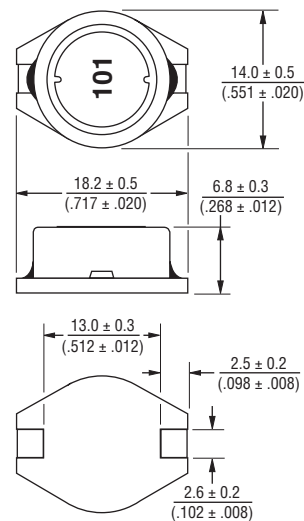
General Specifications

Test Voltage 0.1 V
Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature -45 °C to +125 °C
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

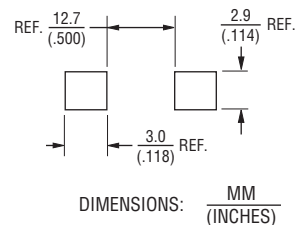
Materials

Core..... Ferrite core
Wire Enameled copper
Base LCP E4008
Terminal Finish Sn
Rated Current Ind. drop 10 % typ. at Isat
Temperature Rise
..... 40 °C typ. at rated I rms
Packaging..... 250 pcs. per reel

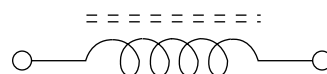
Product Dimensions



Recommended Layout



Schematic



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See 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.

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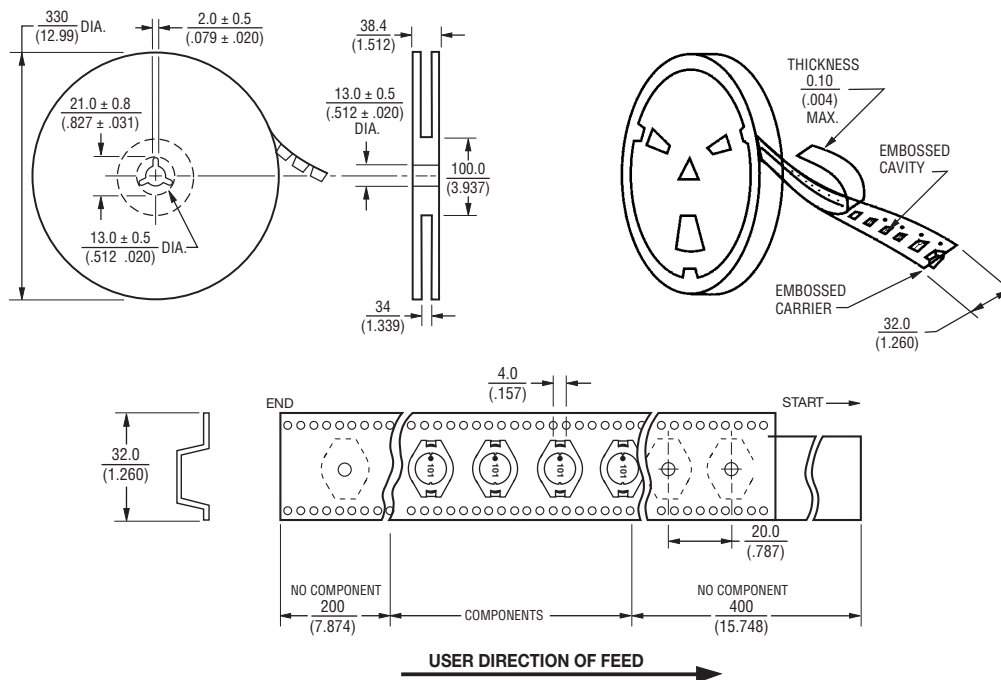
Applications

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

SRR1806 Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



QTY: 250 PCS. PER REEL

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

REV. 01/26

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The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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