

Features

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

Applications

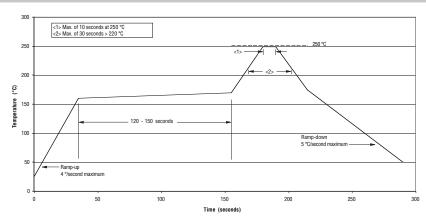
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - · Camcorders
 - LCD TVs

SRR1806 Series - Shielded Power Inductors

Electrical Characteristics

Inductance 100 kHz			Test	SRF	RDC	l rms	l sat	
Bourns Part Number	(µH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	±20 % (Ω)	Max. (A)	Тур. (А)
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	0.796	1.5	2.160	0.45	0.90

Soldering Profile



Schematic





* 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

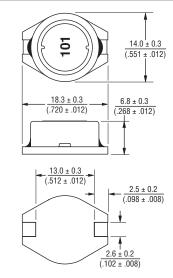
General Specifications

Test Voltage 0.1 V
Reflow soldering250 °C; 10 sec max.
(In compliance with JEDEC,
J-STD-020C, Table 4-2)
Operating Temperature40 °C to +125 °C
(Temperature rise included)
Storage Temperature -45 °C to +125 °C
Resistance to Soldering Heat
250 °C, 10 sec. max.
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

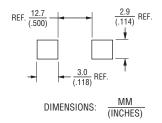
Materials

Core	Ferrite core
Wire	Enameled copper
Base	LCP E4008
Terminal	Cu/Ni/Sn
Rated CurrentInd. o	drop 10 % typ. at Isat
Temperature Rise	
. 40 9	°C max at rated Irms

Product Dimensions



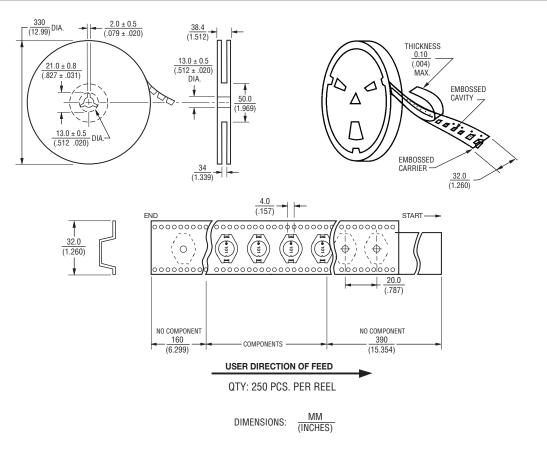
Recommended Layout



SRR1806 Series - Shielded Power Inductors

BOURNS

Packaging Specifications



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