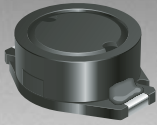


RoHS COMPLIANT



BOURNS®

Features

- Available in E12 series
- Low profile - 3.8 mm unit height
- High current
- Lead free
- RoHS compliant*

Applications

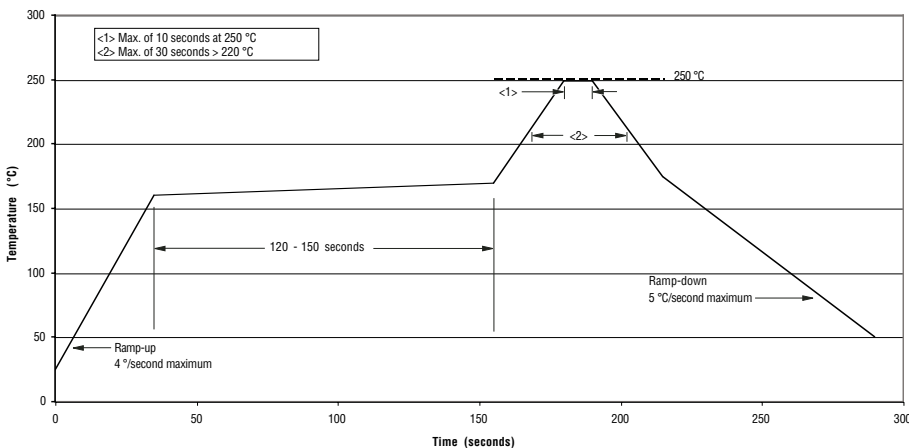
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR0804 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR0804-5R0M	5.0	± 20	20	7.96M	45.0	0.08	1.70	2.80
SRR0804-7R5M	7.5	± 20	20	7.96M	40.0	0.10	1.40	2.60
SRR0804-100M	10	± 20	38	2.52M	32.0	0.12	1.20	2.20
SRR0804-120M	12	± 20	38	2.52M	28.0	0.15	1.10	1.90
SRR0804-150M	15	± 20	38	2.52M	25.0	0.17	1.00	1.60
SRR0804-180Y	18	± 15	35	2.52M	23.0	0.19	0.90	1.50
SRR0804-220Y	22	± 15	30	2.52M	22.0	0.25	0.80	1.30
SRR0804-270Y	27	± 15	28	2.52M	18.0	0.27	0.70	1.30
SRR0804-330Y	33	± 15	26	2.52M	17.0	0.30	0.65	1.10
SRR0804-390Y	39	± 15	26	2.52M	16.0	0.38	0.60	1.00
SRR0804-470K	47	± 10	24	2.52M	14.0	0.46	0.55	0.95
SRR0804-560K	56	± 10	24	2.52M	12.0	0.60	0.50	0.85
SRR0804-680K	68	± 10	22	2.52M	11.0	0.70	0.45	0.80
SRR0804-820K	82	± 10	20	2.52M	10.0	0.80	0.40	0.73
SRR0804-101K	100	± 10	50	0.796M	9.0	0.95	0.37	0.65
SRR0804-121K	120	± 10	50	0.796M	8.5	1.00	0.35	0.55
SRR0804-151K	150	± 10	53	0.796M	7.0	1.30	0.30	0.50
SRR0804-181K	180	± 10	53	0.796M	6.0	1.45	0.28	0.45
SRR0804-221K	220	± 10	55	0.796M	5.5	1.90	0.24	0.40
SRR0804-271K	270	± 10	50	0.796M	5.5	2.15	0.22	0.35
SRR0804-331K	330	± 10	60	0.796M	5.0	2.80	0.19	0.32
SRR0804-391K	390	± 10	55	0.796M	4.5	3.30	0.17	0.30
SRR0804-471K	470	± 10	60	0.796M	4.0	3.60	0.16	0.28

Soldering Profile



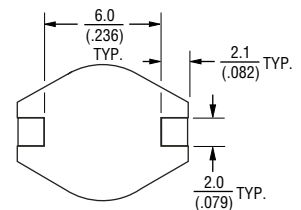
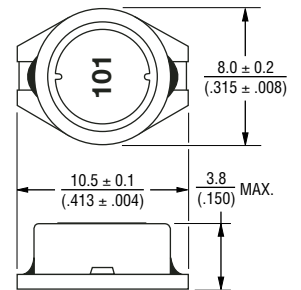
General Specifications

Test Voltage 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

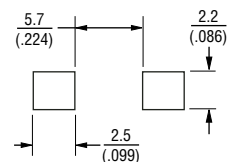
Core Ferrite DR&RI
 Wire Enamelled copper
 Base LCP E4008
 Terminal Cu/Ni/Sn
 Rated Current Ind. drop 10 % typ. at Isat
 Temperature Rise 40 °C max. at rated I_{rms}
 Packaging 1000 pcs. per reel

Product Dimensions



DIMENSIONS: — MM
 (INCHES)

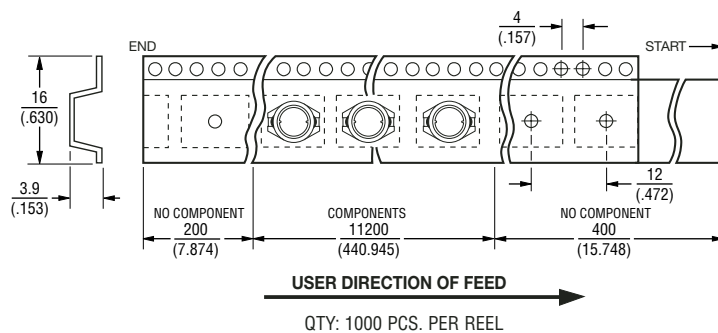
Recommended Layout



*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.

BOURNS®

Technical drawing of a coin with dimensions in inches and millimeters. The main view shows a circular coin with a central hole. Dimensions include: 330 (12.99) DIA. for the outer diameter, 2.0 ± 0.5 (0.079 ± .020) for the central hole diameter, 21 ± .8 (.827 ± .031) for the distance from the center to the edge, 13.0 ± 0.5 (.512 ± .020) DIA. for the inner hole diameter, 22.4 (.882) for the thickness, 13.0 ± 0.5 (.512 ± .020) DIA. for the inner hole diameter, 50.0 (1.969) for the distance from the center to the edge, and 18 (.709) for the distance from the center to the edge. A detail view shows the embossed carrier with dimensions: THICKNESS 0.10 (.004) MAX., EMBOSSED CAVITY, and EMBOSSED CARRIER.



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Customers should verify actual device performance in their specific applications.