



Features

- Available in E6 values
- Mounting height of only 1.15 mm
- Inductance value to 1.5 μH
- RoHS compliant*

Applications

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

SRR3011 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR3011-1R5YL	1.50	± 30	11	7.96	124	0.055	1.60	1.30
SRR3011-2R5YL	2.50	± 30	7	7.96	112	0.085	1.20	1.00
SRR3011-3R3YL	3.30	± 30	8	7.96	101	0.090	1.00	0.85
SRR3011-4R7YL	4.70	± 30	9	7.96	69	0.125	0.90	0.75
SRR3011-6R8YL	6.80	± 30	10	7.96	49	0.210	0.72	0.62
SRR3011-100YL	10.0	± 30	18	2.52	42	0.280	0.65	0.50
SRR3011-150YL	15.0	± 30	16	2.52	37	0.420	0.48	0.38
SRR3011-220YL	22.0	± 30	11	2.52	31	0.680	0.38	0.32
SRR3011-330YL	33.0	± 30	14	2.52	25	0.860	0.32	0.27
SRR3011-470YL	47.0	± 30	16	2.52	18	1.800	0.27	0.23
SRR3011-680YL	68.0	± 30	14	2.52	15	2.250	0.22	0.18
SRR3011-101YL	100.0	± 30	39	0.796	13	3.600	0.18	0.15

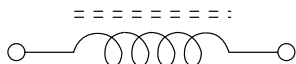
General Specifications

Test Voltage.....0.1 V
 Reflow Soldering ...230 °C, 50 sec. max.
 Operating Temperature ..-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Resistance to Soldering Heat
260 °C for 10 sec.

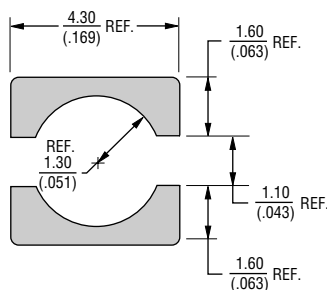
Materials

CoreFerrite DR and RI
 WireEnameled copper wire 130
 Terminal.....Ag/Ni/Sn
 Rated Current
Ind. drop 35 % typ. at Isat
 Temperature Rise30 °C max.
 at rated I rms
 Packaging1200 pcs. per reel

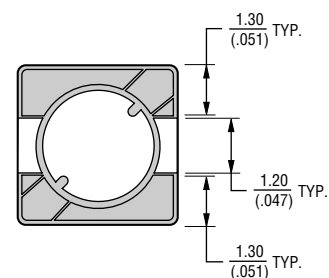
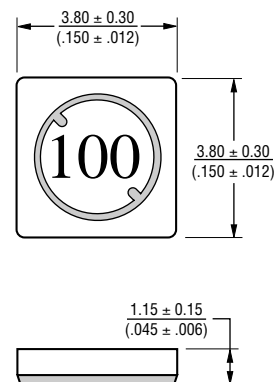
Electrical Schematic



Recommended Layout



Product Dimensions



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

BOURNS®

Technical drawing of a 100 Yen coin and its embossed carrier. The drawing includes top, side, and end views with dimensions in inches and millimeters.

Top View (Coin):

- Outer Diameter: 21.0 ± 0.8 (0.827 ± 0.031)
- Inner Diameter: 13.0 ± 0.5 (0.512 ± 0.020)
- Top Edge Diameter: 178 (7.00) DIA.
- Bottom Edge Diameter: 2.0 ± 0.5 (0.079 ± 0.020)

Side View (Coin):

- Thickness: 0.10 (0.004) MAX.
- Outer Diameter: 18.4 (0.724)
- Inner Diameter: 13.0 ± 0.5 (0.512 ± 0.020) DIA.
- Height: 50.0 (1.969)

End View (Carrier):

- Width: 14 (0.551)
- Height: 50.0 (1.969)
- Labels: THICKNESS, EMBOSSED CAVITY, EMBOSSED CARRIER

Bottom View (Carrier):

- Width: 14 (0.551)
- Height: 50.0 (1.969)
- Labels: END, START, NO COMPONENT, COMPONENTS
- Dimensions: 160 (6.299), 390 (15.354), 4 (0.157)
- Labels: 100, 100

USER DIRECTION OF FEED

QTY: 1200 PCS. PER REEL

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

Mouser Electronics

Authorized Distributor

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Bourns:

[SRR3011-R47YL](#)