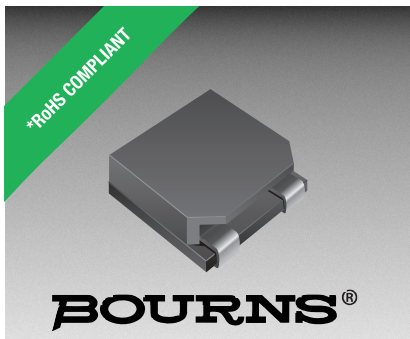




Features

- Low height of only 5.0 mm
- Inductance as low as 0.9 μH
- High current up to 20 amps
- RoHS compliant*

Applications

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

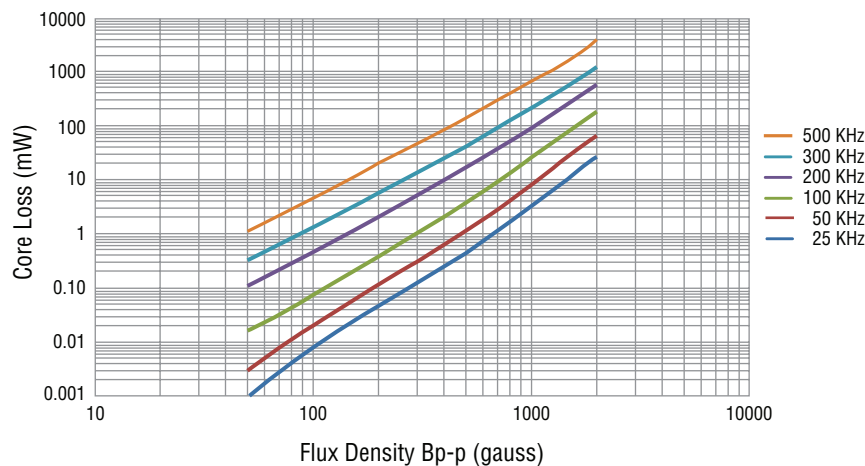
SRR1305 Series - Shielded SMD High Power Inductors

Electrical Characteristics

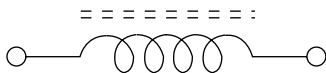
Bourns Part No.	Inductance 1 kHz / 1 V			SRF Min. (MHz)	RDC. (m Ω)	I rms (L1)Max. (A)	I sat Typ. (A)	**K- Factor
	L0 (μH)	L1 (μH)	Tol. %					
SRR1305-R90ZL	0.9	0.75	± 25	95	2.5	20.0	22.0	185
SRR1305-1R4ZL	1.4	1.25	± 25	70	3.4	16.0	18.0	136
SRR1305-2R0ZL	2.0	1.80	± 25	60	4.6	13.0	15.0	107

**K-Factor: To calculate core flux density, Bp-p (gauss) = $K \times L(\mu\text{H}) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



Schematic



Additional Information

Click these links for more information:



PRODUCT
SELECTOR



TECHNICAL
LIBRARY



INVENTORY

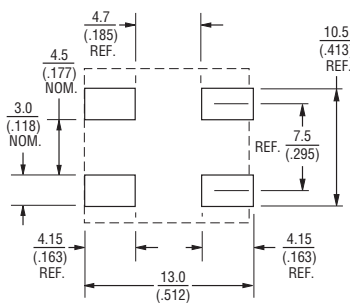


SAMPLES



CONTACT

Recommended Layout



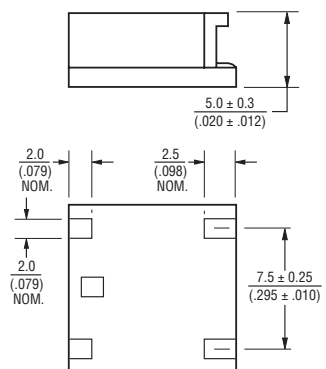
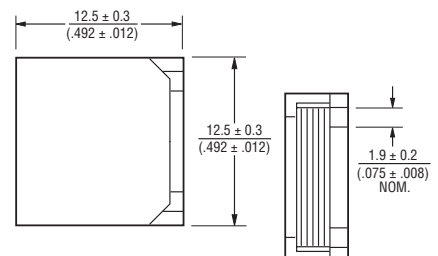
General Specifications

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 5 sec.
Moisture Sensitivity Level 1
ESD Classification (HBM)..... N/A

Materials

Core..... Ferrite ER and SB
Wire Ultra-fine rectangular
enameled copper
Terminal Cu/Sn
Adhesive..... Epoxy resin
Rated Current .. Ind. drop 20 % max. at (L1) Isat
Temperature Rise .. 45 °C max. at rated Irms
Packaging..... 600 pcs. per reel

Product Dimensions



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



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

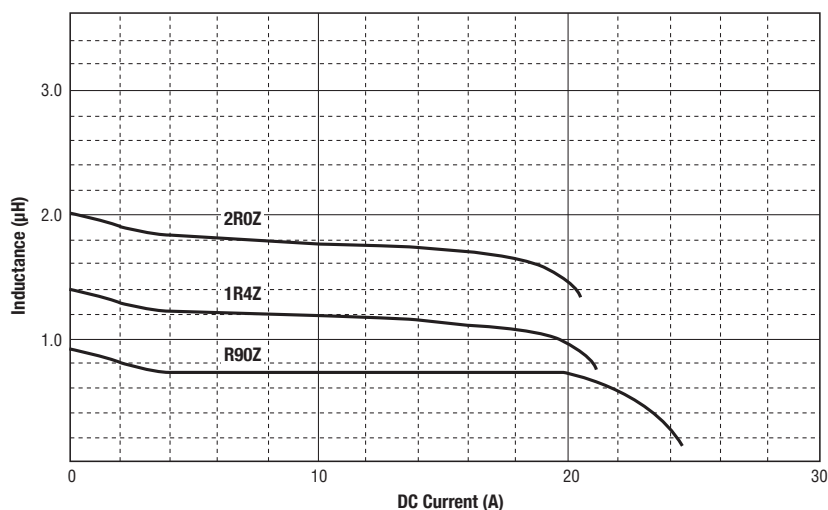
Users should verify actual device performance in their specific applications.

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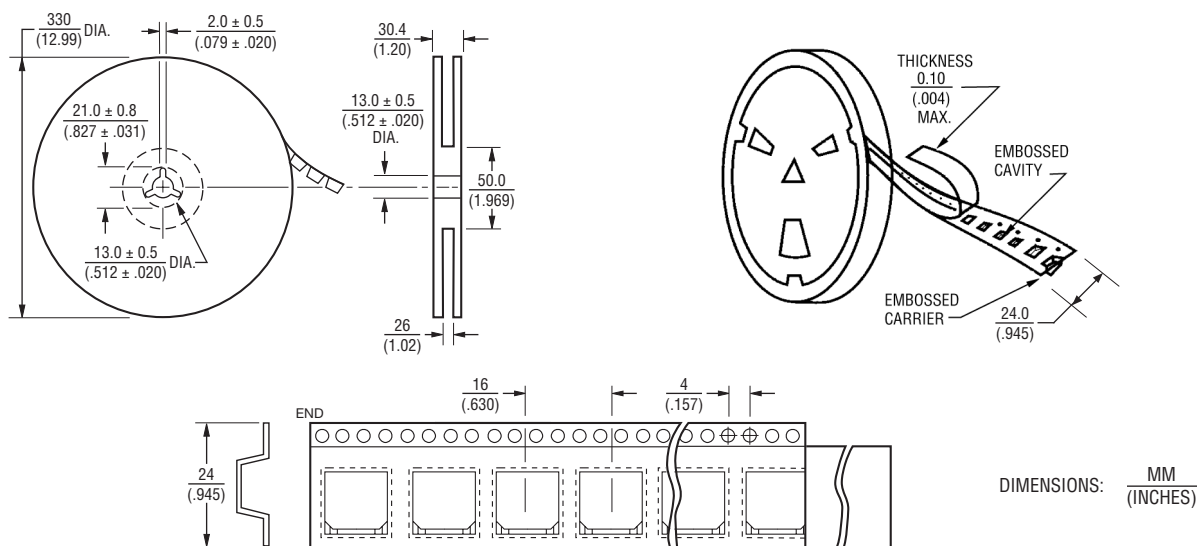
SRR1305 Series - Shielded SMD High Power Inductors

BOURNS®

Inductance vs. DC Superposition Characteristics



Packaging Specifications



REV. 06/25

Specifications are subject to change without notice.

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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