

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
 - · Car radios

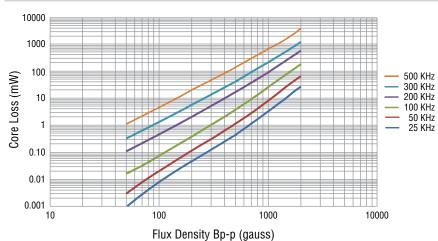
SRR1305 Series - Shielded SMD High Power Inductors

Electrical Characteristics

	Inductance 100 KHz			SRF Min.	RDC.	I rms (L1)Max.	l sat Typ.	**K-
Bourns Part No.	L0 (µH)	L1 (µH)	Tol. %	(MHz)	(mΩ)	(A)	(A)	Factor
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
SRR1305-2R7ZL	2.7	2.50	± 25	50	9.5	6.0	10.0	89

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

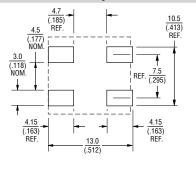
Core Loss vs. Flux Density



Schematic



Recommended Layout



General Specifications

Test Voltage0.1 V Reflow Soldering .. 230 °C, 50 sec. max. Operating Temperature-40 °C to +125 °C

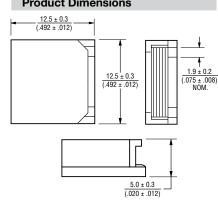
(Temperature rise included) Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

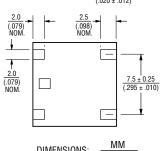
......260 °C for 5 sec.

Materials

	Ferrite ER and SB
Wire	Ultra-fine rectangular
	enameled copper
	Cu/Sn
Adhesive	Epoxy resin
Rated Current	
Ind. drop 2	20 % max. at (L1) Isat
Temperature Rise	
45	°C max. at rated Irms
Packaging	600 pcs. per reel

Product Dimensions



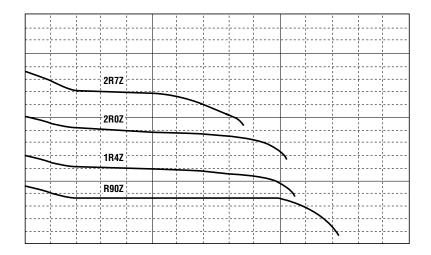


DIMENSIONS: (INCHES)

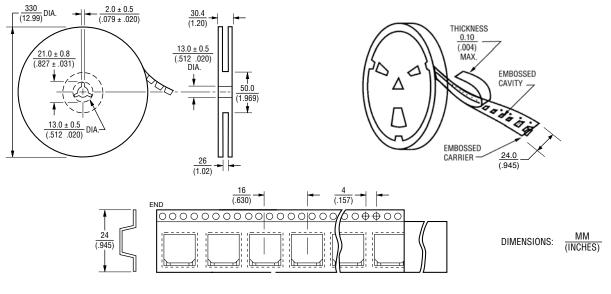
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

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Inductance vs. DC Superposition Characteristics



Packaging Specifications



QTY: 600 PCS. PER REEL