

#### **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

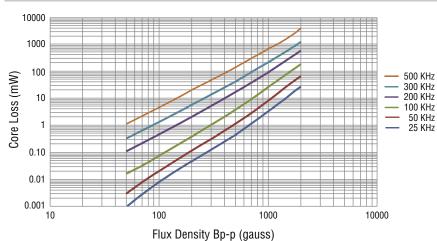
## **SRR1305 Series - Shielded SMD High Power Inductors**

#### **Electrical Characteristics**

	Inductance 1 kHz / 1 V			SRF Min.	RDC.	I rms (L1)Max.	I 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

<sup>\*\*</sup>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.

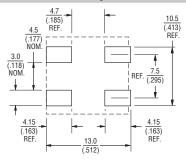
#### Core Loss vs. Flux Density



#### **Schematic**



#### **Recommended Layout**



#### **General Specifications**

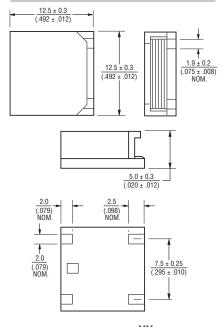
Reflow Soldering .. 230 °C, 50 sec. max.

Operating Temperature
.....-40 °C to +125 °C

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

#### **Materials**

#### **Product Dimensions**



DIMENSIONS:

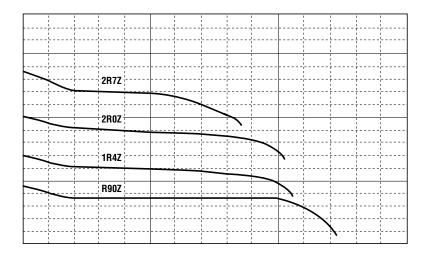
(INCHES)



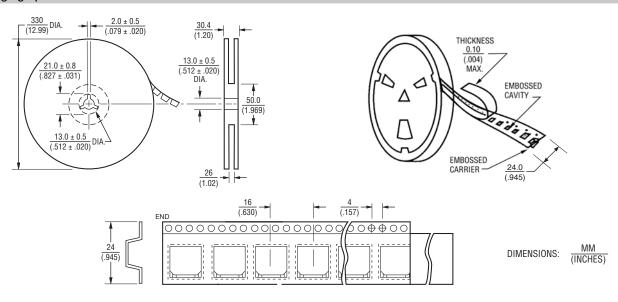
www.P65Warnings.ca.gov

# **SRR1305 Series - Shielded SMD High Power Inductors**

#### Inductance vs. DC Superposition Characteristics



#### **Packaging Specifications**



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