

#### **Features**

- Available in E6 series
- Unit height of 1.8 mm
- Current up to 2.8 A
- RoHS compliant\*

## **Applications**

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

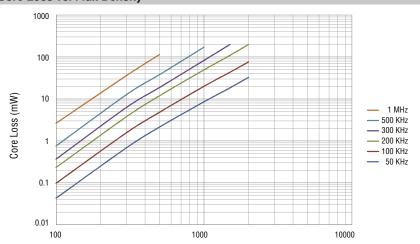
## **SRU5018 Series - Shielded SMD Power Inductors**

#### **Electrical Specifications**

	Inductance @ 100 KHz			Test	SRF		I rms	I sat	
Bourns Part Number	L (μH)	Tol. (%)	Q Ref.	Freq. (MHz)	Min. (MHz)	RDC .(mΩ)	Max. (A)	Typ.	**K- Factor
SRU5018-1R0Y	1.0	±30	9	7.96	200	12.5	2.80	2.85	1105
SRU5018-1R5Y	1.5	±30	9	7.96	160	15.5	2.50	2.40	904
SRU5018-2R2Y	2.2	±30	10	7.96	130	20.5	2.30	2.10	765
SRU5018-3R5Y	3.5	±30	9	7.96	90	32.0	2.10	1.70	585
SRU5018-4R7Y	4.7	±30	8.5	7.96	80	36.0	2.00	1.55	524
SRU5018-6R8Y	6.8	±30	7.5	7.96	60	50.0	1.45	1.20	432
SRU5018-100Y	10.0	±30	12	2.52	50	65.0	1.25	1.05	368
SRU5018-150Y	15.0	±30	12	2.52	40	100.0	0.95	0.80	301
SRU5018-220Y	22.0	±30	12	2.52	28	160.0	0.68	0.65	243
SRU5018-330Y	33.0	±30	13	2.52	23	220.0	0.66	0.56	195
SRU5018-470Y	47.0	±30	13	2.52	18	330.0	0.54	0.45	163
SRU5018-680Y	68.0	±30	12	2.52	16	480.0	0.37	0.36	140
SRU5018-101Y	100.0	±30	15	0.796	15	620.0	0.32	0.31	117

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

### Core Loss vs. Flux Density



Flux Density Bp-p (gauss)

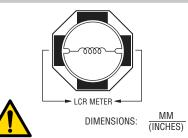
### **Electrical Schematic**



 $^{\star}$  RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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### **Inductor Connection**

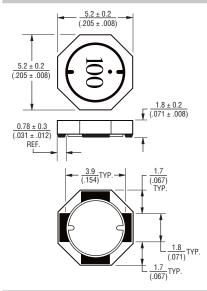


WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

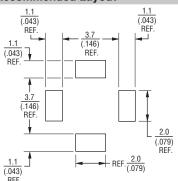
### **General Specifications**

#### **Materials**

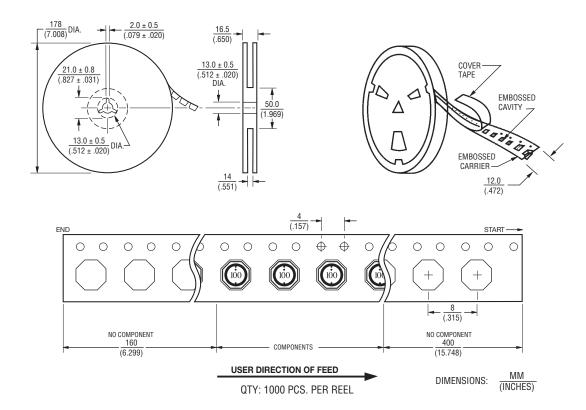
#### **Product Dimensions**



#### **Recommended Layout**



## **Packaging Specifications**



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