

## **Features**

- Available in E6 series
- Unit height of 1.6 mm
- Current up to 1.8 A
- RoHS compliant\*

# **Applications**

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

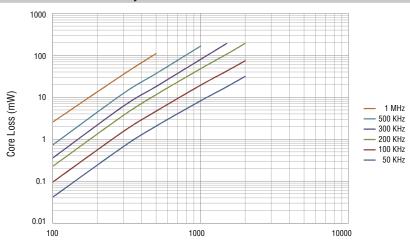
# **SRU5016 Series - Shielded SMD Power Inductors**

#### **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)	Тур. (A)	**K- Factor
SRU5016-1R8Y	1.8	±30	9	7.96	100	24	1.75	1.70	605
SRU5016-3R3Y	3.3	±30	9	7.96	80	35	1.55	1.50	462
SRU5016-4R7Y	4.7	±30	9	7.96	60	43	1.30	1.20	374
SRU5016-6R8Y	6.8	±30	8	7.96	50	50	1.20	1.10	314
SRU5016-100Y	10.0	±30	15	2.52	40	84	1.00	0.90	271
SRU5016-150Y	15.0	±30	15	2.52	32	130	0.80	0.72	225
SRU5016-220Y	22.0	±30	15	2.52	28	195	0.65	0.56	192
SRU5016-330Y	33.0	±30	13	2.52	22	300	0.54	0.50	148
SRU5016-470Y	47.0	±30	18	2.52	18	390	0.46	0.42	125
SRU5016-680Y	68.0	±30	18	2.52	15	560	0.36	0.33	108
SRU5016-101Y	100.0	±30	18	0.796	12	850	0.30	0.27	83

<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



Flux Density Bp-p (gauss)

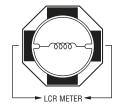
## **Electrical Schematic**



 $^{\star}$  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**





DIMENSIONS: (IN

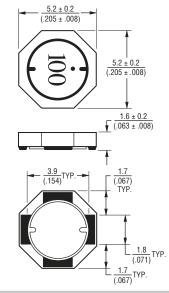
(INCHES)

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

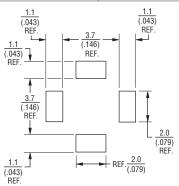
## **General Specifications**

# Materials

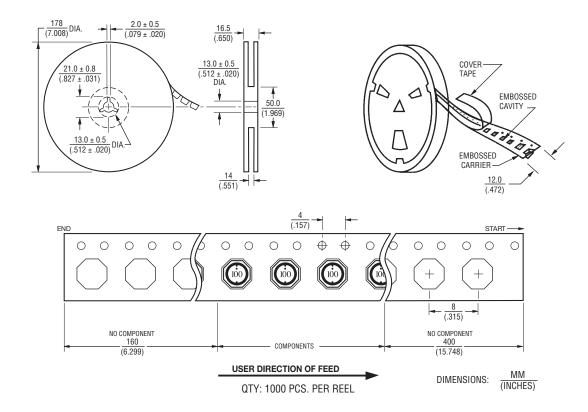
### **Product Dimensions**



## **Recommended Layout**



# **Packaging Specifications**



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