



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

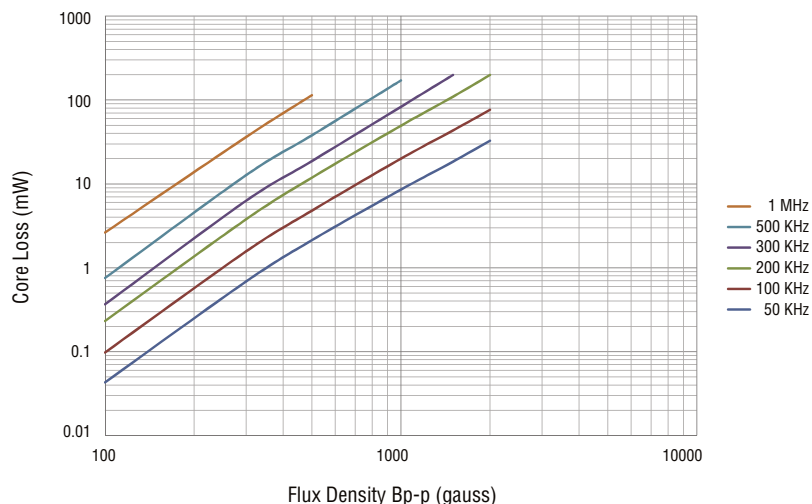
SRU5018 Series - Shielded SMD Power Inductors

Electrical Specifications

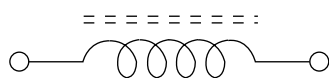
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU5018-1R0Y	1.0	±30	9	7.96	200	12.5	2.80	2.85	1105
SRU5018-1R5Y	1.5	±30	9	7.96	160	15.5	2.50	2.40	904
SRU5018-2R2Y	2.2	±30	10	7.96	130	20.5	2.30	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

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

Core Loss vs. Flux Density

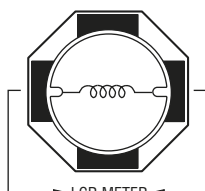


Electrical Schematic



* 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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Inductor Connection



DIMENSIONS: MM
(INCHES)



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

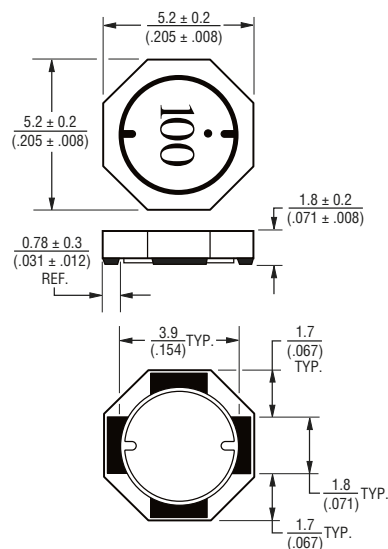
General Specifications

Test Voltage0.1 V
Reflow Soldering .. 230 °C, 50 sec. max.
Operating Temp.-40 °C to +125 °C
(Temperature rise included)
Storage Temperature...-40 °C to +125 °C
Resistance to Soldering Heat
.....+260 °C for 10 sec.
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

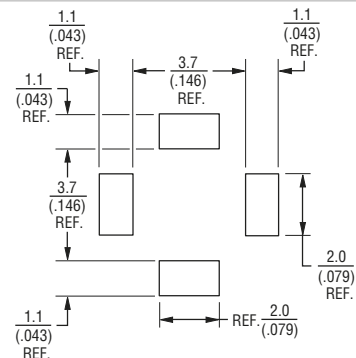
Materials

Core.....Ferrite DR and RI core
WireEnamelled copper
TerminalAg/Ni/Sn
Rated Current..Ind. drop 35 % typ. at Isat
Temperature Rise
.....30 °C max. at rated Irms
Packaging..... 1000 pcs. per reel

Product Dimensions



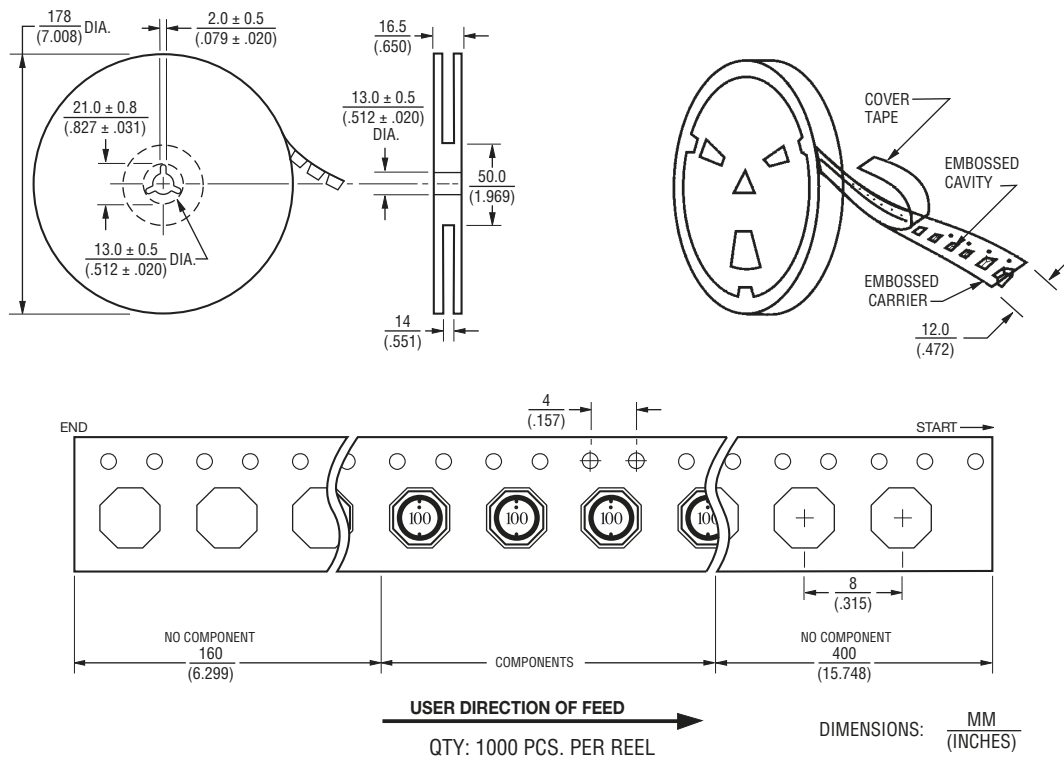
Recommended Layout



SRU5018 Series - Shielded SMD Power Inductors

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Packaging Specifications



REV. 03/18

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