



Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 3.5 A
- RoHS compliant*

Applications

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

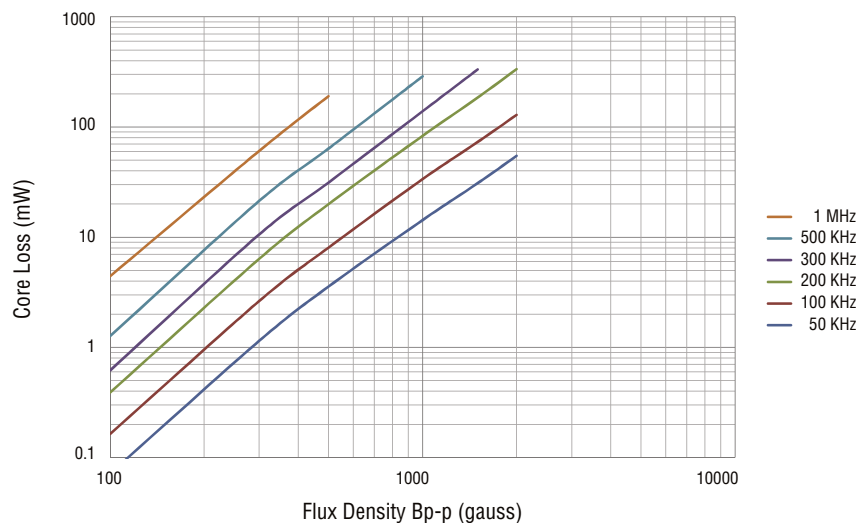
SRU5028 Series - Shielded SMD Power Inductors

Electrical Specifications

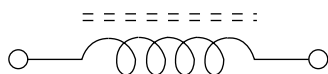
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
	L (μH)	Tol. (%)							
SRU5028-1R2Y	1.2	±30	10	7.96	200	16.8	3.50	3.40	453
SRU5028-2R2Y	2.2	±30	10	7.96	130	21.0	3.20	2.50	313
SRU5028-3R3Y	3.3	±30	10	7.96	90	24.0	2.80	2.10	272
SRU5028-4R7Y	4.7	±30	9	7.96	50	32.0	2.20	1.85	214
SRU5028-6R8Y	6.8	±30	10	7.96	55	42.0	2.00	1.55	177
SRU5028-100Y	10.0	±30	18	2.52	25	63.0	1.80	1.40	151
SRU5028-150Y	15.0	±30	18	2.52	23	108.0	1.10	1.00	123
SRU5028-220Y	22.0	±30	15	2.52	18	162.0	0.95	0.85	95
SRU5028-330Y	33.0	±30	15	2.52	16	203.0	0.80	0.68	87
SRU5028-470Y	47.0	±30	13	2.52	13	285.0	0.70	0.62	69
SRU5028-680Y	68.0	±30	13	2.52	10	450.0	0.56	0.46	59
SRU5028-101Y	100.0	±30	15	0.796	8	625.0	0.47	0.42	50

**K-Factor: To calculate core flux density, Bp-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



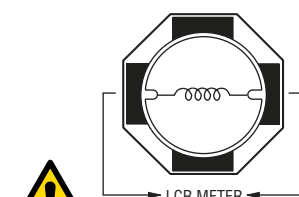
Electrical Schematic



* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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Inductor Connection



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

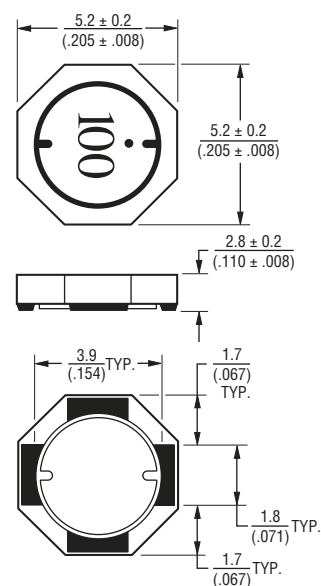
General Specifications

Test Voltage 0.1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temp. -40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

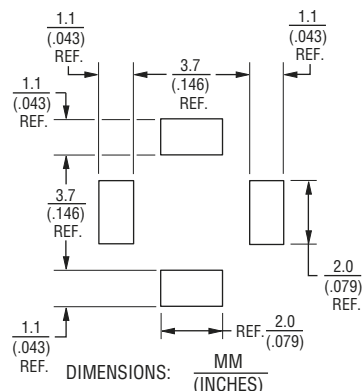
Materials

Core Ferrite DR and RI core
 Wire Enameled copper
 Terminal Ag/Ni/Sn
 Rated Current..Ind. drop 35 % typ. at Isat
 Temp. Rise..... 40 °C max. at rated Irms
 Packaging 600 pcs. per reel

Product Dimensions



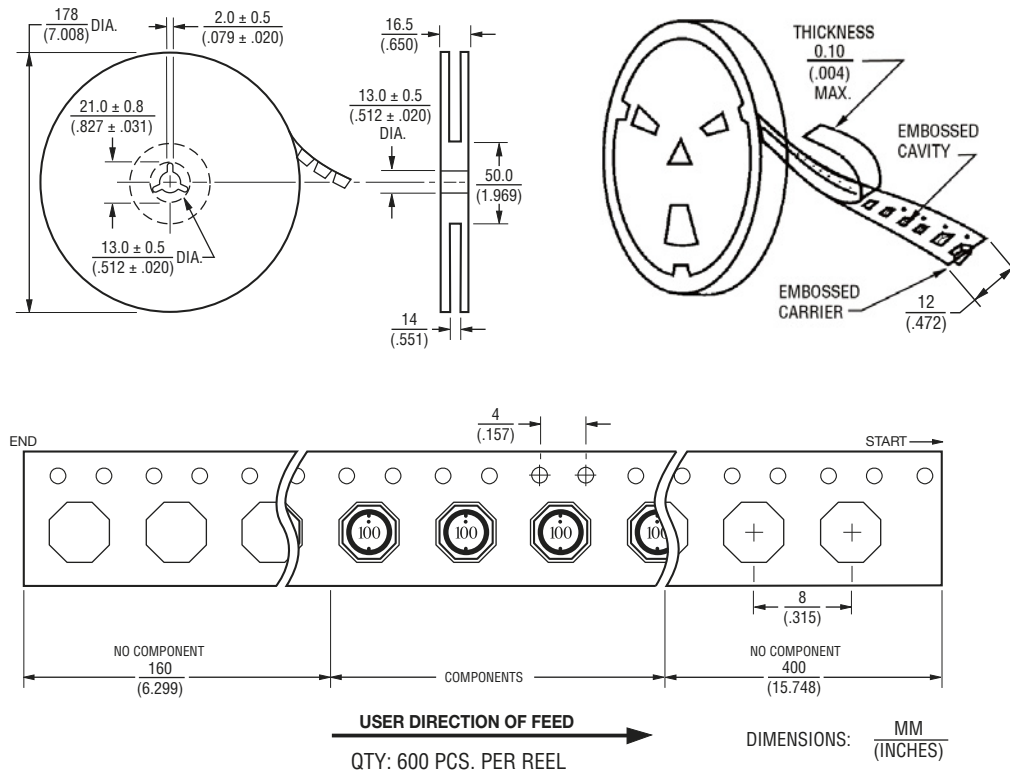
Recommended Layout



SRU5028 Series - Shielded SMD Power Inductors

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Packaging Specifications



REV. 03/18

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9