

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

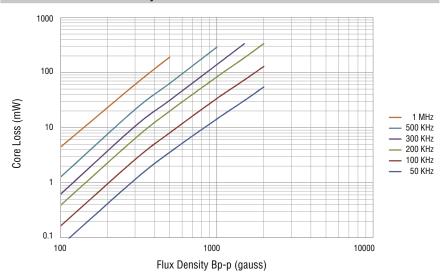
SRU5028 Series - Shielded SMD Power Inductors

Electrical Specifications

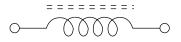
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq.	SRF Min.	RDC (mΩ)	I rms Max.	I sat Typ.	**K-
	L (μH)	Tol. (%)	nei.	(MHz)	(MHz)	(11152)	(A)	(A)	Factor
SRU5028-1R2Y	1.2	±30	10	7.96	200	16.8	3.50	3.40	453
SRU5028-2R2Y	2.2	±30	10	7.96	130	21.0	3.20	2.50	313
SRU5028-3R3Y	3.3	±30	10	7.96	90	24.0	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 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



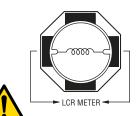
Electrical Schematic



 * 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



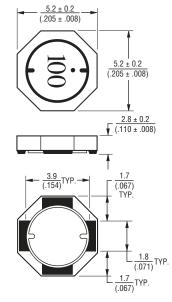
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

General Specifications

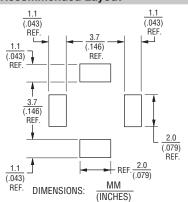
Materials

Core Ferrite DR and RI core
Wire Finameled 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

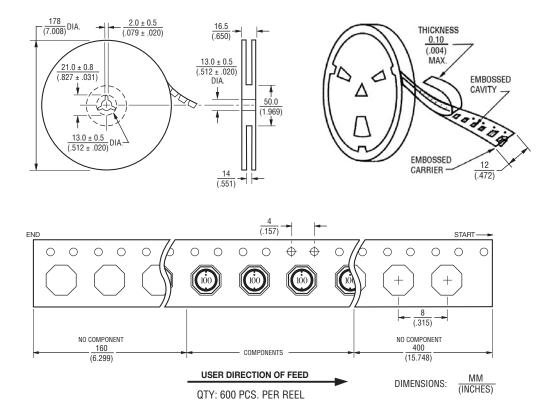
Product Dimensions



Recommended Layout



Packaging Specifications



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