



Features

- Maximum height of 6.7 mm
- Current up to 8 A
- RoHS compliant*

Applications

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

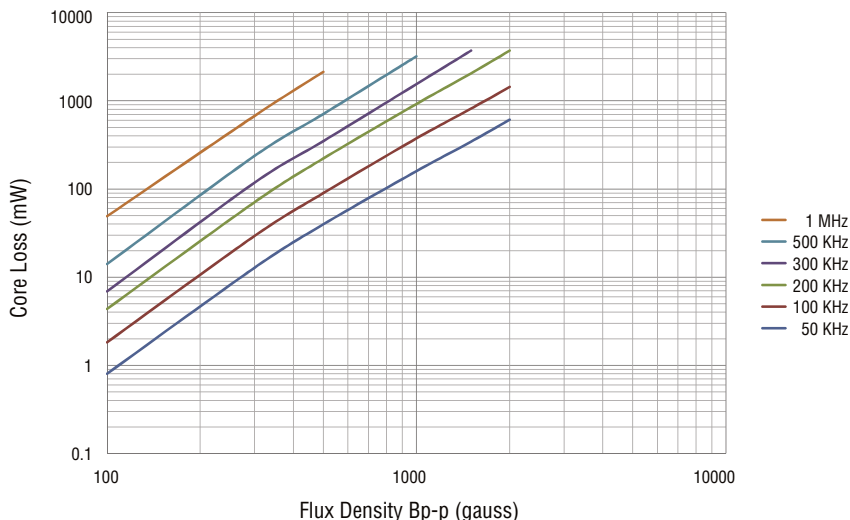
SRU1063 Series - Shielded SMD Power Inductors

Electrical Specifications

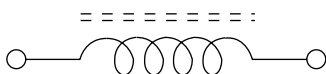
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU1063-1R6Y	1.6	±30	13	7.96	65	9	8.00	10.00	133
SRU1063-2R2Y	2.2	±30	10	7.96	65	11	7.50	8.50	95
SRU1063-4R7Y	4.7	±30	11	7.96	30	14	5.50	5.70	68
SRU1063-100Y	10	±30	14	2.52	18	38	3.80	4.00	49
SRU1063-150Y	15	±30	12	2.52	14	42	3.20	3.40	41
SRU1063-220Y	22	±30	15	2.52	10	60	3.00	3.20	33
SRU1063-330Y	33	±30	12	2.52	8	105	2.20	2.40	26
SRU1063-470Y	47	±30	10	2.52	6	150	1.40	1.60	22
SRU1063-680Y	68	±30	8	2.52	5	210	1.20	1.35	20
SRU1063-101Y	100	±30	12	2.52	4	320	1.10	1.20	15

**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.

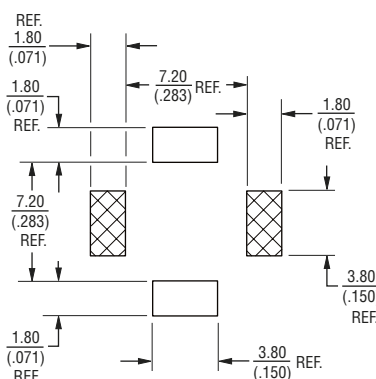
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



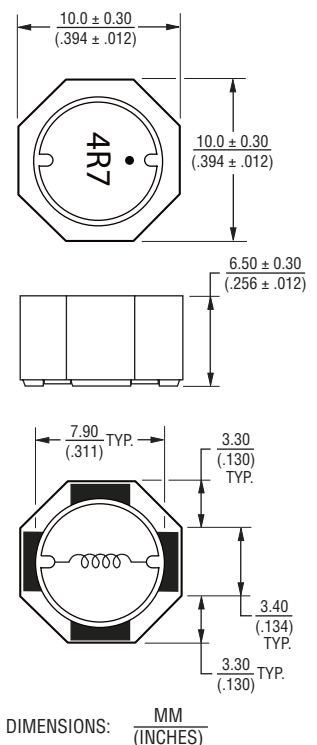
General Specifications

Test Voltage.....0.1 V
 Reflow Soldering 230 °C, 50 sec. max.
 Operating Temp..... -40 °C to +125 °C
 (Temperature rise included)
 Storage 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
 Wire.....Enameled copper
 Terminal.....Ag/Ni/Sn
 Rated Current...Ind. drop 35 % typ. at Isat
 Temp. Rise40 °C max. at rated Irms
 Packaging500 pcs. per reel

Product Dimensions



DIMENSIONS: MM
(INCHES)

* 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



WARNING Cancer and Reproductive Harm
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