



**THE DATASHEET OF
SRU1063-680Y**





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.

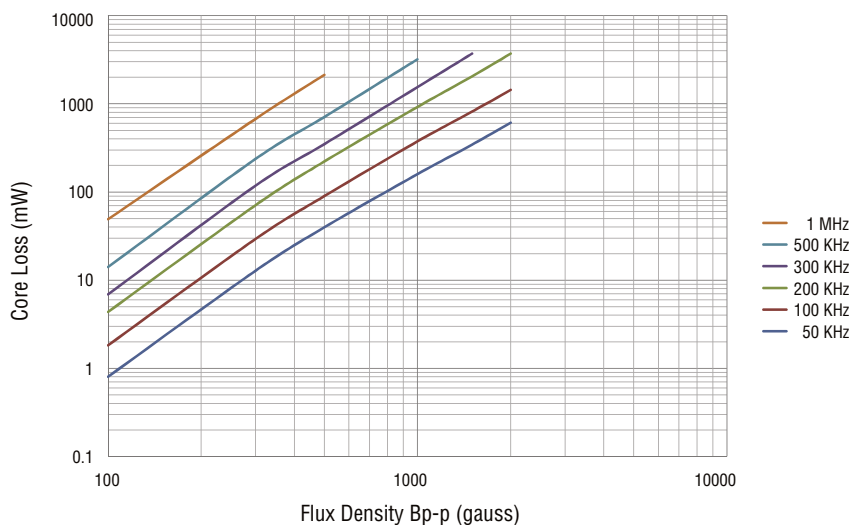
General Specifications

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

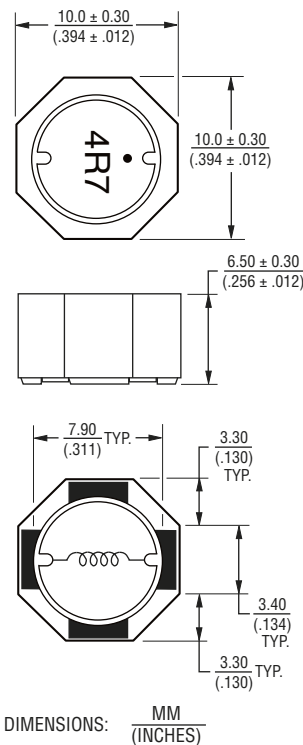
Materials

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 I rms
 Packaging 500 pcs. per reel

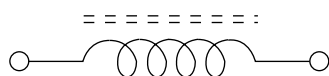
Core Loss vs. Flux Density



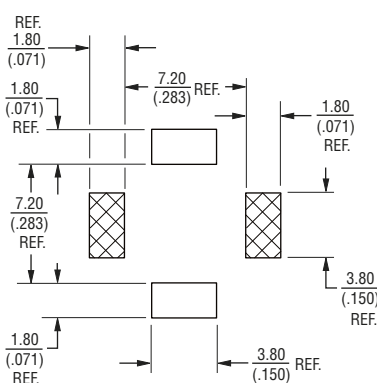
Product Dimensions



Electrical Schematic



Recommended Layout



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

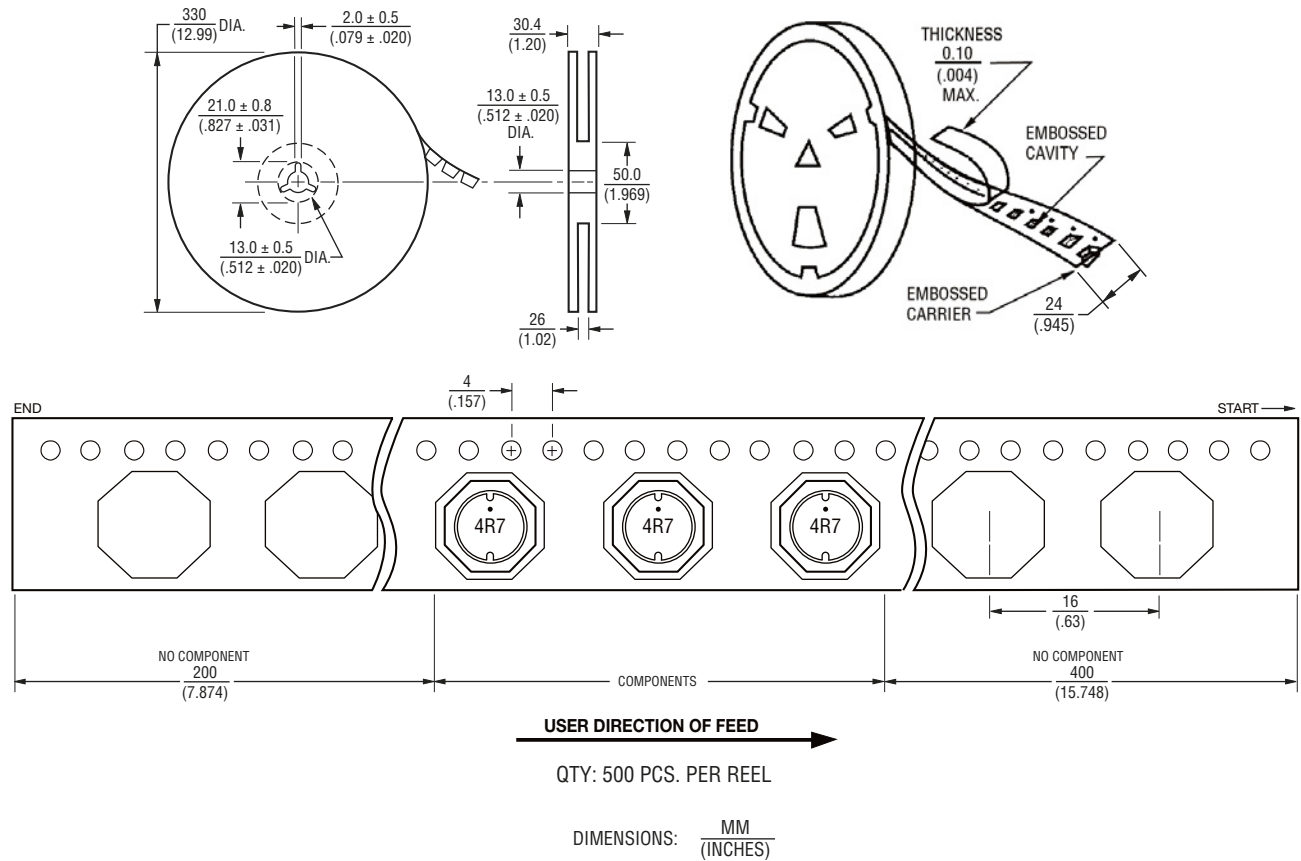
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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SRU1063 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 03/18

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