



**THE DATASHEET OF
SRU1063A-150Y**





Features

- Shielded construction
- Inductance range: 4.7 to 100 μ H
- Heating current up to 5.5 A
- Dimensions: 10 x 10 x 6.5 mm
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU1063A Series - Shielded Power Inductors

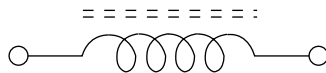
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	DCR (Ω)		I rms (A)	I sat (A)
	L (μ H)	Tol. (%)				Typ.	Max.		
SRU1063A-4R7Y	4.7	± 30	11	7.96	30	0.011	0.014	5.5	5.7
SRU1063A-6R8Y	6.8	± 30	11	7.96	20	0.0145	0.018	5.2	5.2
SRU1063A-100Y	10	± 30	14	2.52	18	0.027	0.038	3.8	4.0
SRU1063A-150Y	15	± 30	12	2.52	14	0.03	0.042	3.2	3.4
SRU1063A-220Y	22	± 30	15	2.52	10	0.043	0.06	3.0	3.2
SRU1063A-330Y	33	± 30	12	2.52	8	0.075	0.105	2.2	2.4
SRU1063A-470Y	47	± 30	10	2.52	6	0.105	0.15	1.4	1.6
SRU1063A-680Y	68	± 30	8	2.52	5	0.15	0.21	1.2	1.35
SRU1063A-101Y	100	± 30	12	0.796	4	0.24	0.32	1.1	1.2

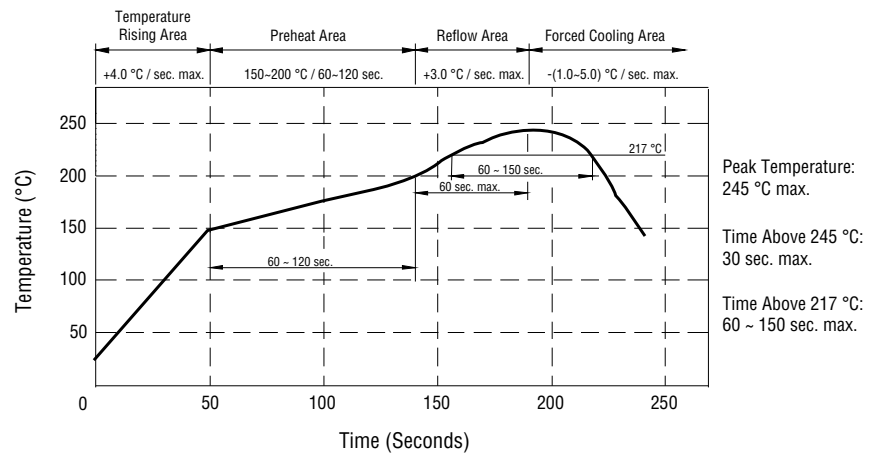
How to Order

Model SRU1063A - 100Y
 Value Code (see table)

Electrical Schematic



Soldering Profile



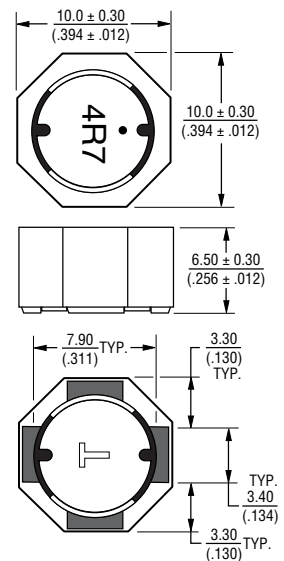
General Specifications

Operating Temperature-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Temperature Rise 40 °C typ. at rated I rms
 Inductance drop..... 35 % at I sat
 Failure In Time (FIT)24.7/10⁹ hours
 Mean Time Between Failures (MTBF) 40.4 x 10⁶ hours

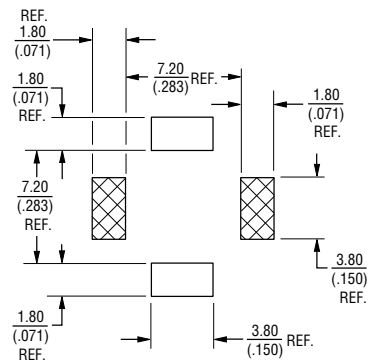
Materials

Core.....Ferrite
 Wire.....Enameled copper
 Terminal.....Sn
 Packaging 500 pcs. per reel

Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

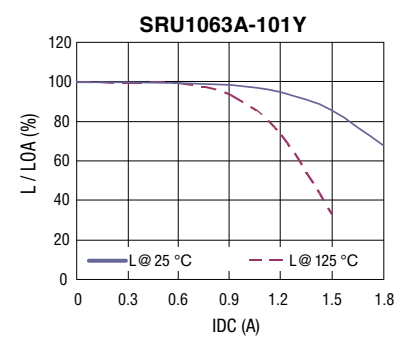
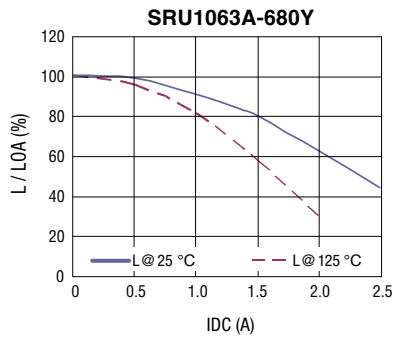
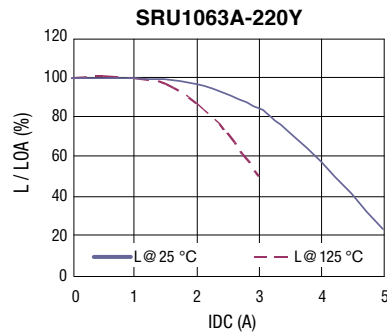
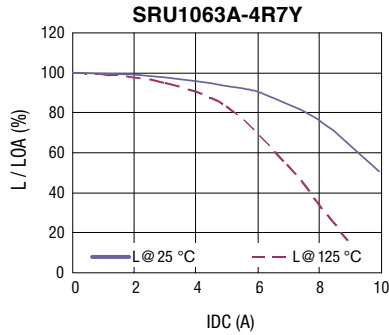
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 **Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
 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

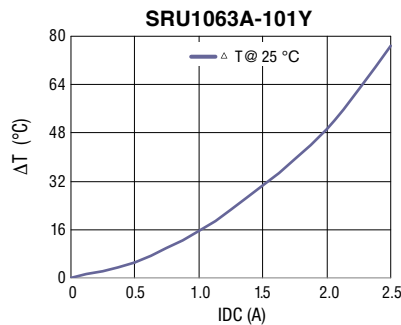
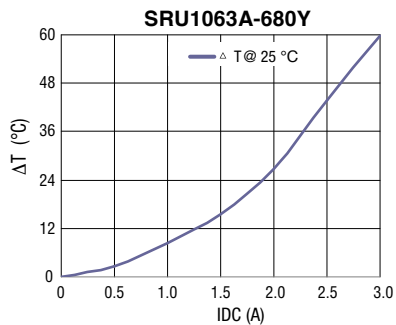
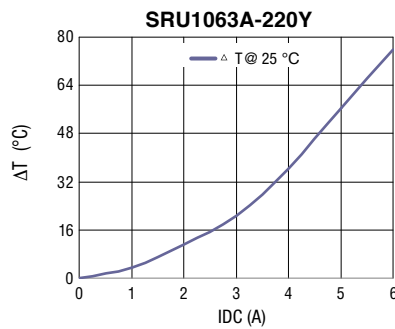
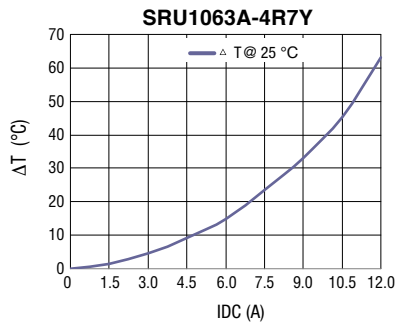
SRU1063A Series - Shielded Power Inductors

BOURNS®

Inductance vs. IDC



Temperature vs. IDC



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