



**THE DATASHEET OF
SRU1063A-101Y**





Features

- Shielded construction
- Inductance range: 4.7 to 100 μH
- 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

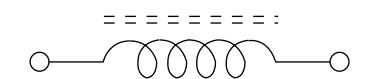
Electrical Specifications @ 25 °C

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 (μH)	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

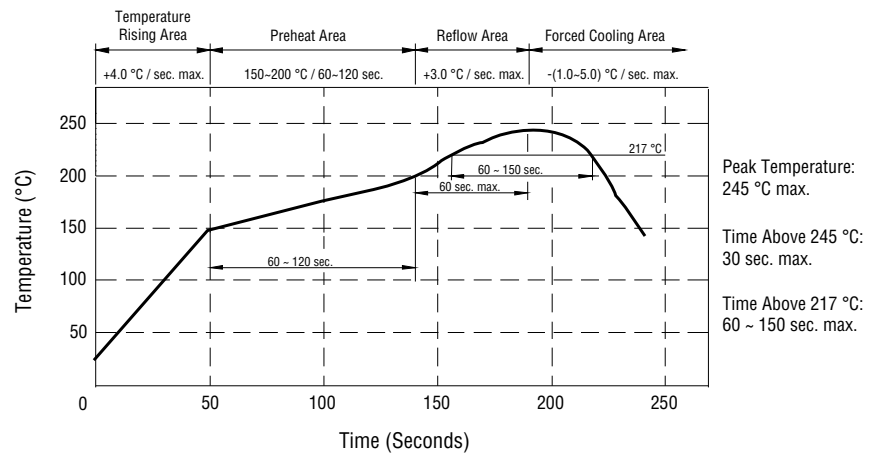
How to Order

Model SRU1063A - 100Y
 Value Code (see table)

Electrical Schematic



Soldering Profile



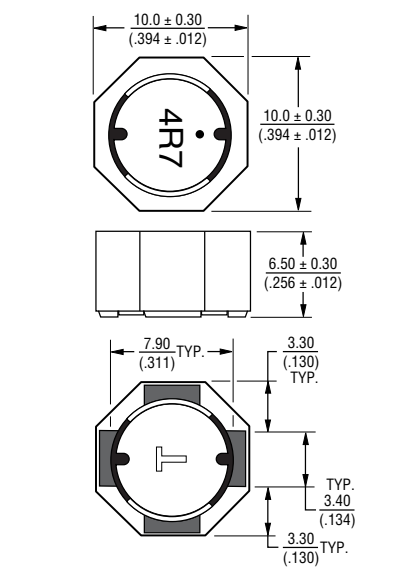
General Specifications

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

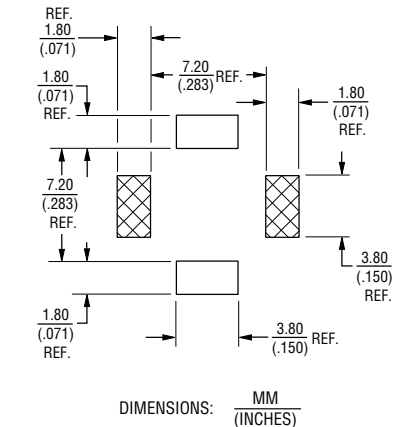
Materials

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

Product Dimensions



Recommended Layout



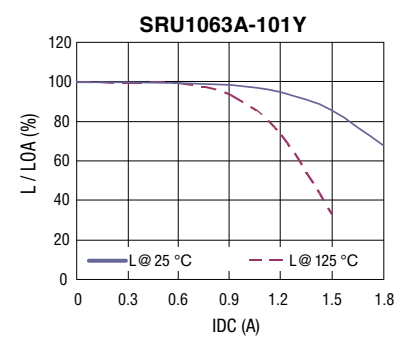
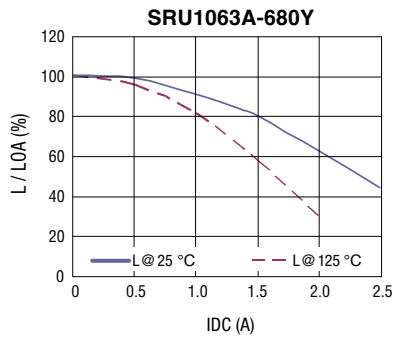
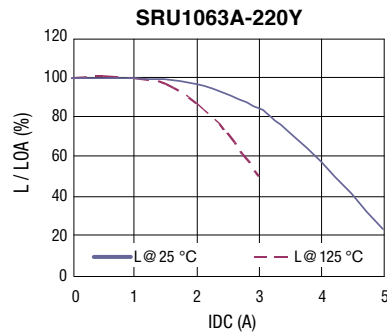
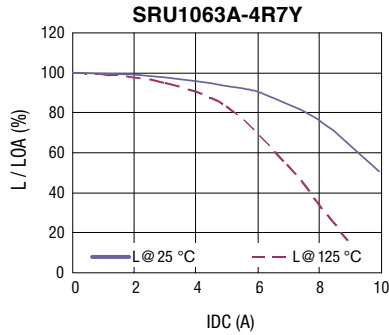
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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.
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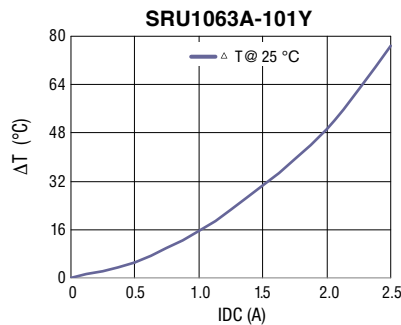
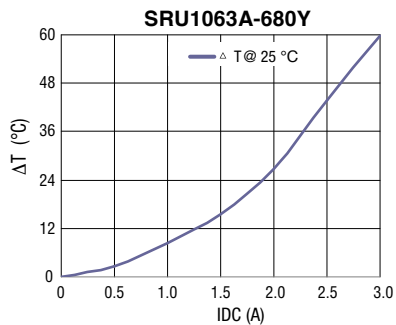
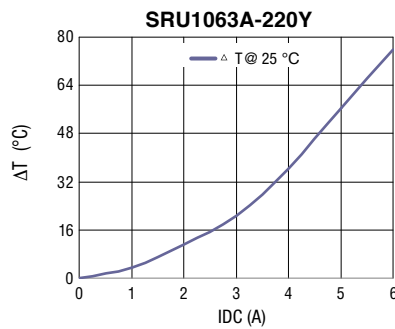
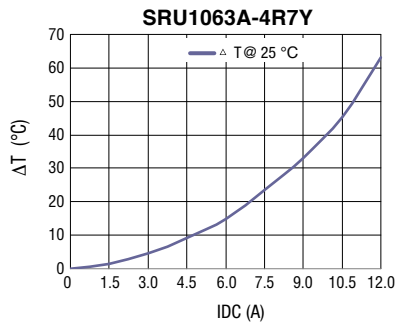
SRU1063A Series - Shielded Power Inductors

BOURNS®

Inductance vs. IDC



Temperature vs. IDC



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