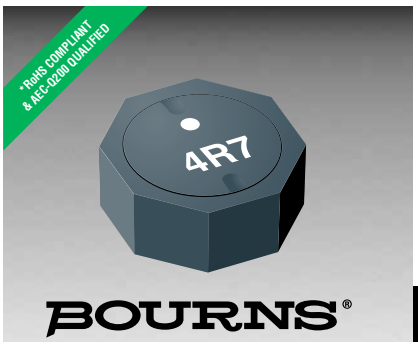
chanhvinh.com



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**

Applications

- Automotive systems:
  - Driver assistant
  - Entertainment
  - Information
  - Lighting
- DC/DC converters
- Power supplies

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

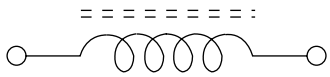
How to Order

SRU1063A - 100Y

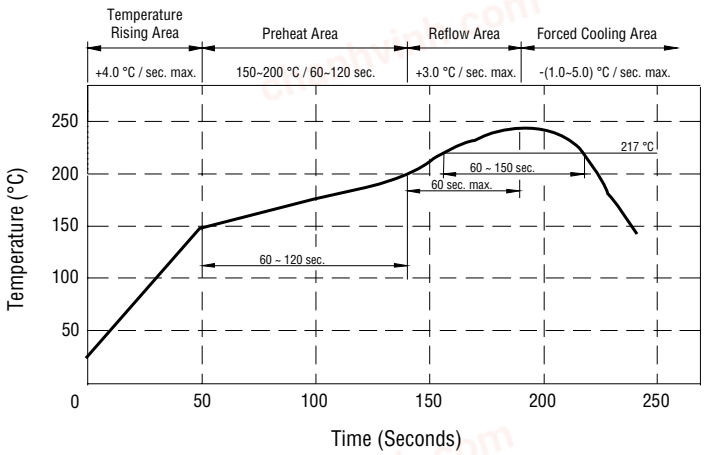
Model

Value Code (see table)

Electrical Schematic



Soldering Profile



Peak Temperature: 245 °C max.

Time Above 245 °C: 30 sec. max.

Time Above 217 °C: 60 ~ 150 sec. max.

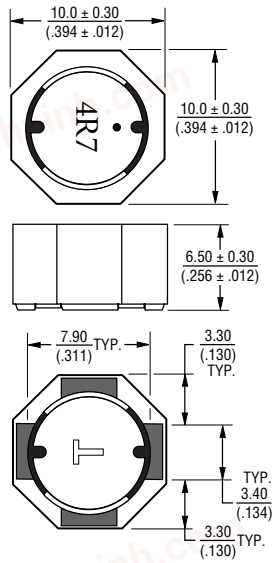
General Specifications

Operating Temperature .....-40 °C to +125 °C (Temperature rise included)
Storage Temperature..-40 °C to +125 °C
Temperature Rise .....40 °C typ. at rated Irms
Inductance drop.....35 % at Isat
Failure In Time (FIT).....24.7/10^9 hours
Mean Time Between Failures (MTBF) .....40.4 x 10^6 hours

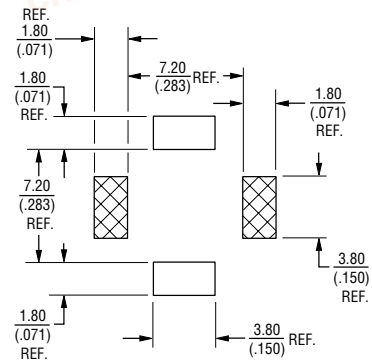
Materials

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

Product Dimensions



Recommended Layout



DIMENSIONS: MM (INCHES)

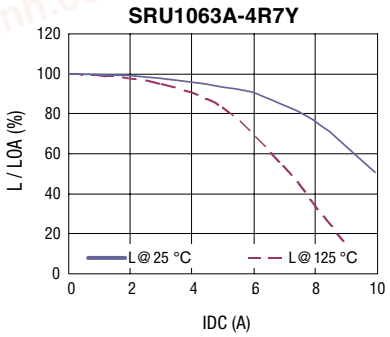
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

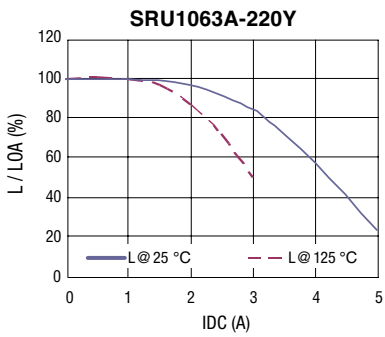
**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

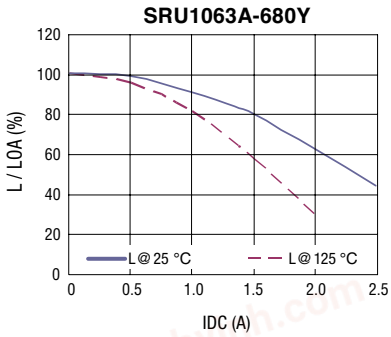
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

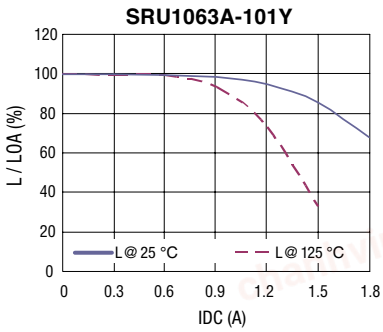
chanhvinh.com

Inductance vs. IDC

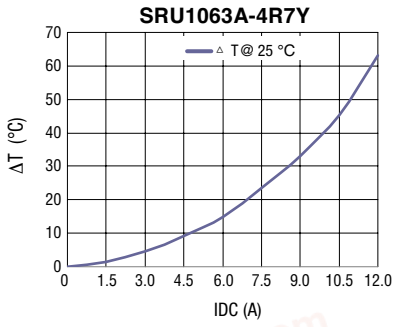


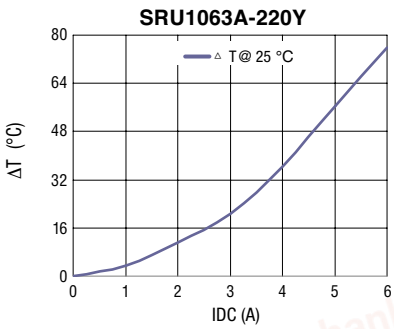


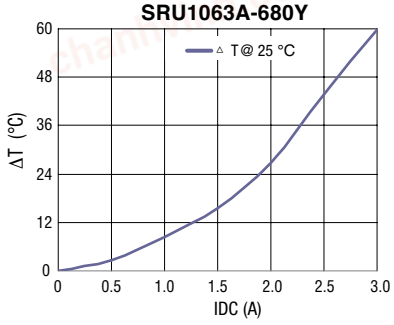


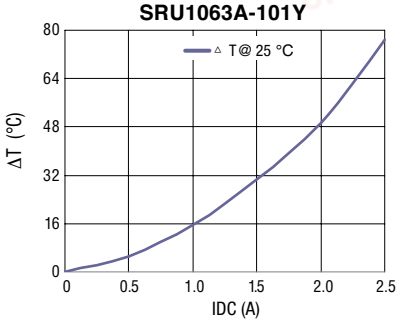


Temperature vs. IDC





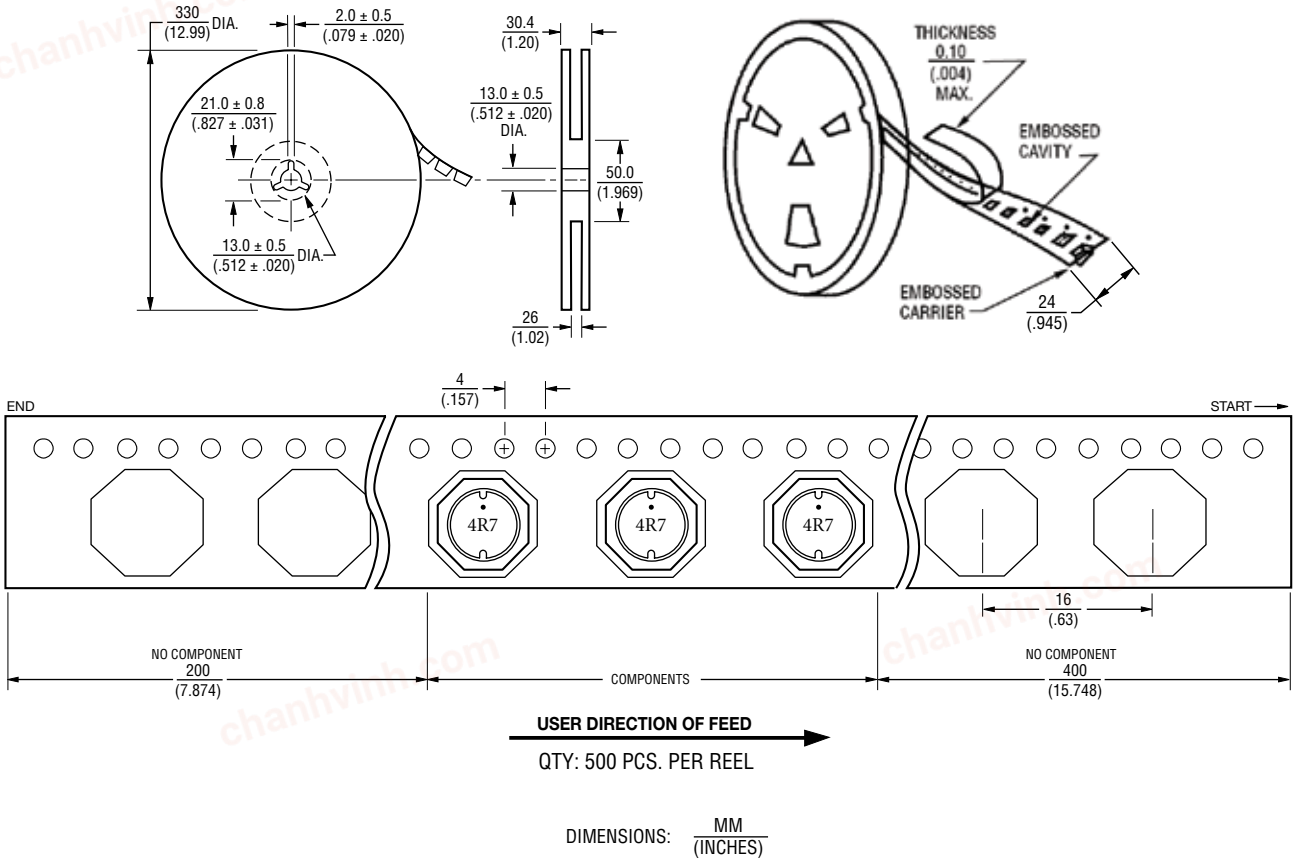




Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

chanhvinh.com

Packaging Specifications



USER DIRECTION OF FEED

QTY: 500 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.