

Features

- Height of 4.0 mm max.
- Current rating up to 3.5 A
- RoHS compliant*

Applications

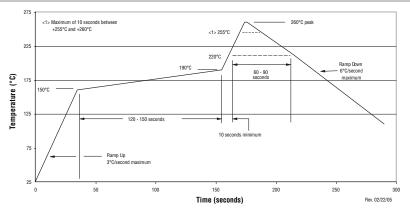
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - Camcorders
 - · LCD TVs

SRR6038 Series - Shielded SMD Power Inductors

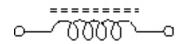
Electrical Characteristics

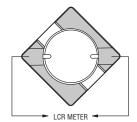
	Inductance 100 kHz		_	Test	SRF	DCR		
Bourns Part Number	(μH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	Max. (mΩ)	I rms (A)	l sat (A)
SRR6038-3R3Y	3.3	±30	9.8	7.96	75.9	20	3.50	3.60
SRR6038-5R0Y	5.0	±30	8.9	7.96	42.6	24	2.90	2.95
SRR6038-6R2Y	6.2	±30	9.0	7.96	42.3	27	2.50	2.60
SRR6038-7R4Y	7.4	±30	7.5	7.96	32.9	31	2.30	2.55
SRR6038-8R2Y	8.2	±30	7.4	7.96	29.6	34	2.20	2.45
SRR6038-8R7Y	8.7	±30	7.3	7.96	27.5	34	2.20	2.35
SRR6038-100Y	10	±30	8.8	2.52	24.9	38	2.00	2.05
SRR6038-120Y	12	±30	8.3	2.52	17.9	53	1.70	1.95
SRR6038-150Y	15	±30	8.6	2.52	18.0	57	1.60	1.90
SRR6038-180Y	18	±30	8.0	2.52	13.8	92	1.50	1.70
SRR6038-220Y	22	±30	8.8	2.52	13.9	96	1.30	1.60
SRR6038-270Y	27	±30	7.7	2.52	12.5	109	1.20	1.30
SRR6038-330Y	33	±30	8.6	2.52	12.5	124	1.10	1.20
SRR6038-390Y	39	±30	8.3	2.52	11.8	138	1.00	1.10
SRR6038-470Y	47	±30	8.5	2.52	10.4	155	0.95	1.00
SRR6038-560Y	56	±30	8.2	2.52	8.8	202	0.85	0.90
SRR6038-680Y	68	±30	7.4	2.52	7.5	234	0.75	0.87
SRR6038-820Y	82	±30	7.6	2.52	7.6	324	0.70	0.75
SRR6038-101Y	100	±30	6.7	0.796	6.2	358	0.65	0.68

Soldering Profile



Electrical Schematic







WARNING Cancer and Reproductive Harm - $\underline{www.P65Warnings.ca.gov}$

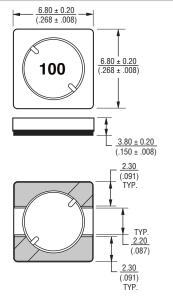
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Storage Temperature.. -40 °C to +125 °C Resistance to Soldering Heat 260 °C for 10 sec.

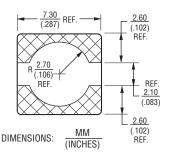
Materials

Core	Ferrite
Wire	Enameled copper
Adhesive	Epoxy resin
	Ag/Ni/Sn
Rated Current	•
Ind. d	Irop 35 % typ. at Isat
Temperature Rise	30 °C typ.
	at rated Irms
Packaging	1000 pcs. per reel

Product Dimensions

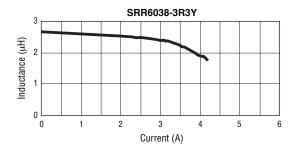


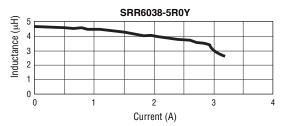
Recommended Layout

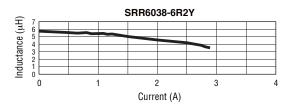


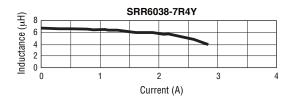
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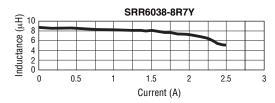
Inductance vs. Current

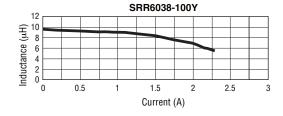


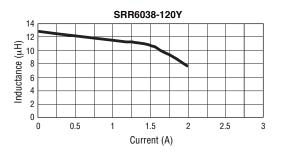


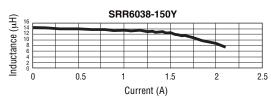


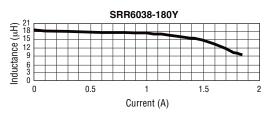


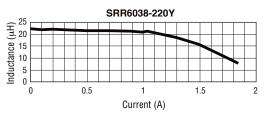


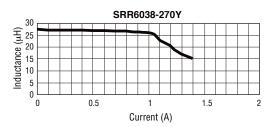


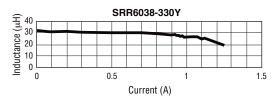










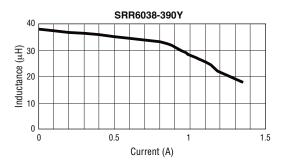


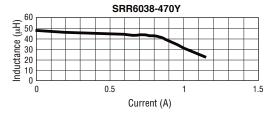
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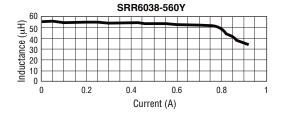
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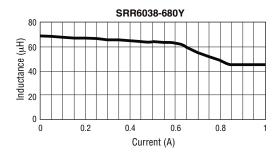
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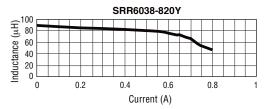
Inductance vs. Current

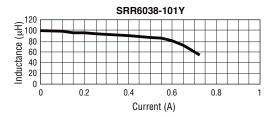




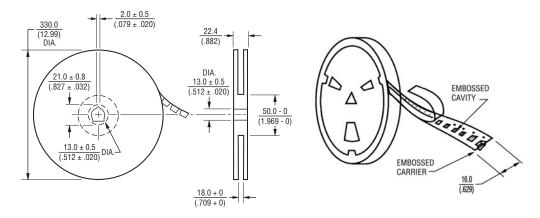


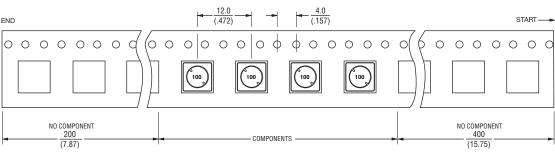






Packaging Specifications





USER DIRECTION OF FEED

OTY: 1000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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