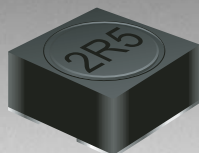


*RoHS COMPLIANT



BOURNS®

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
 - Car radios

SRR6038 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (mΩ)	I _{rms} (A)	I _{sat} (A)
	(μH)	Tol. %						
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

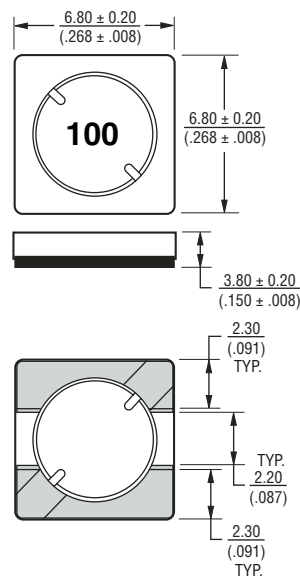
General Specifications

Test Voltage0.1 V, 100 KHz
 Reflow Soldering230 °C; 50 sec max.
 Operating Temperature ...-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Resistance to Soldering Heat
260 °C for 10 sec.

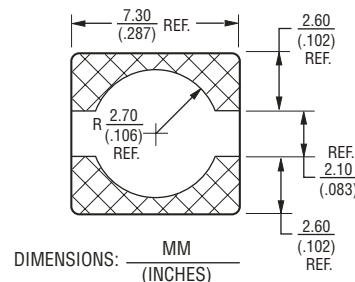
Materials

Core MaterialFerrite
 WireEnamelled Copper
 AdhesiveEpoxy Resin
 TerminalAg/Ni/Sn
 Rated CurrentInd. drop of 35 % typ.
 at I_{sat}
 Temperature Rise30 °C typ. at I_{rms}
 Packaging1000 pcs. per reel

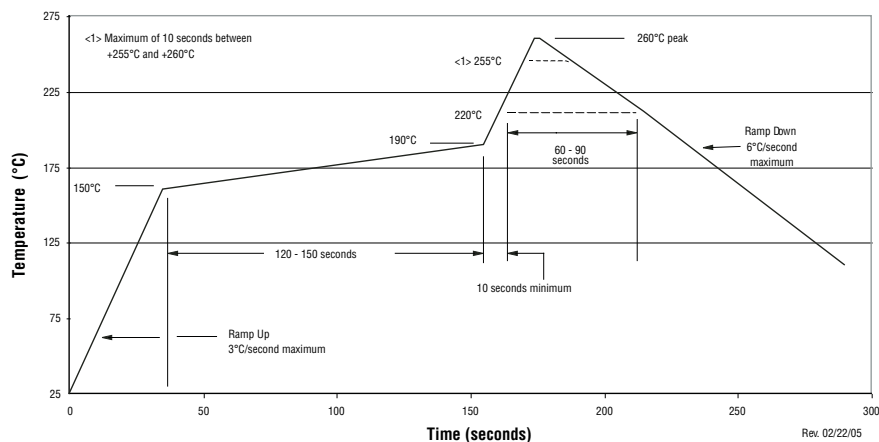
Product Dimensions



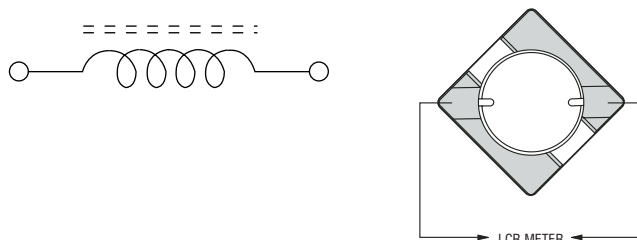
Recommended Layout



Soldering Profile



Electrical Schematic

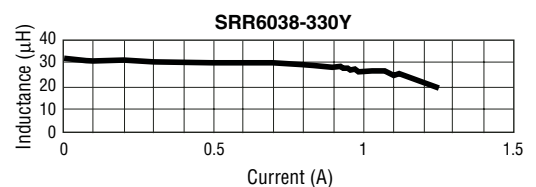
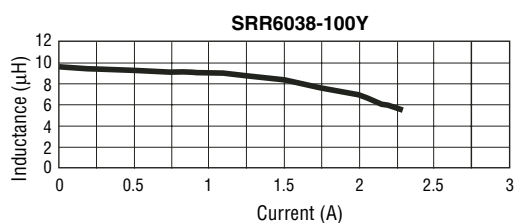
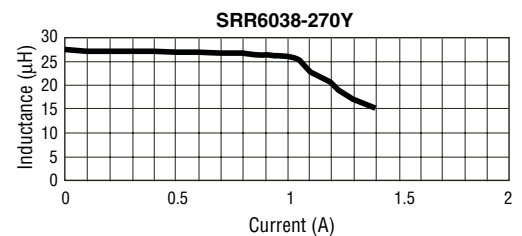
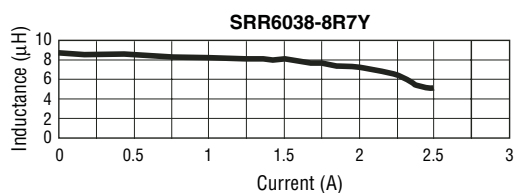
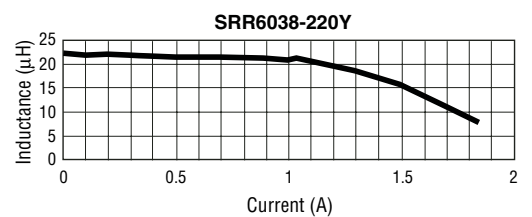
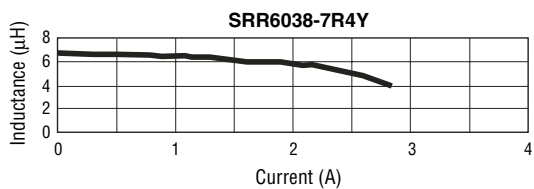
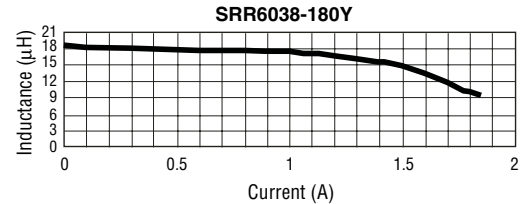
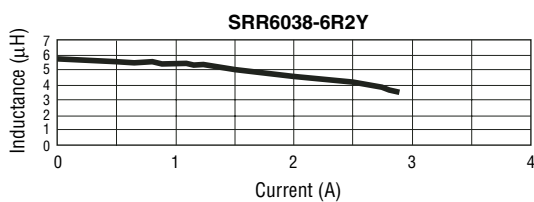
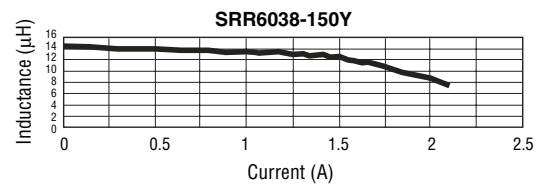
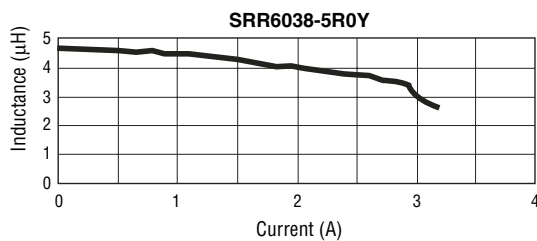
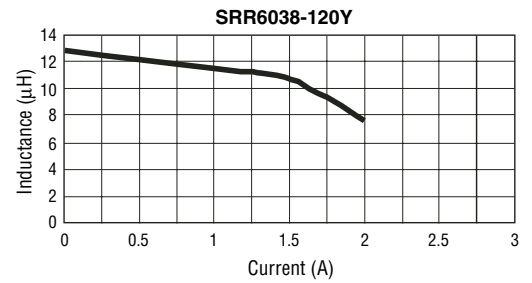
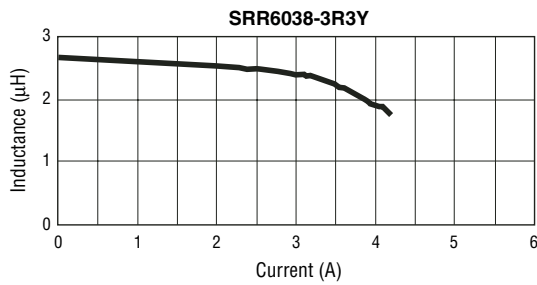


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

SRR6038 Series - Shielded SMD Power Inductors

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Inductance vs. Current

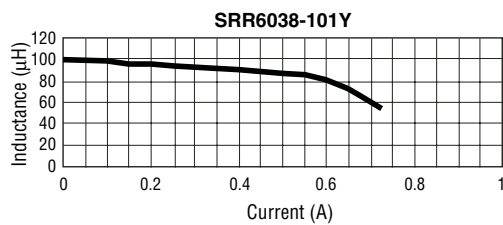
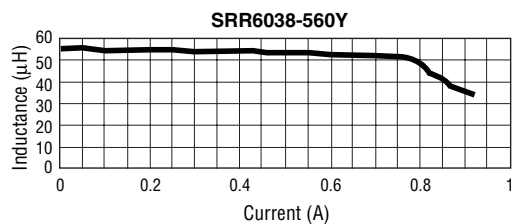
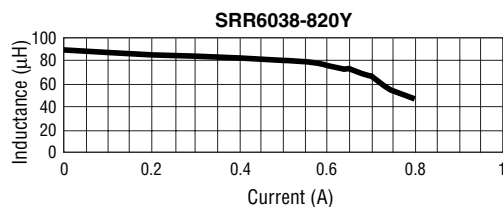
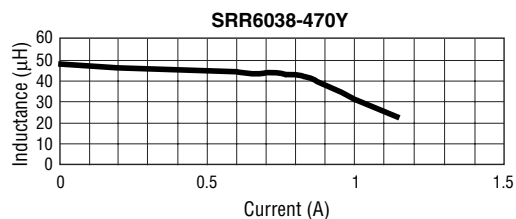
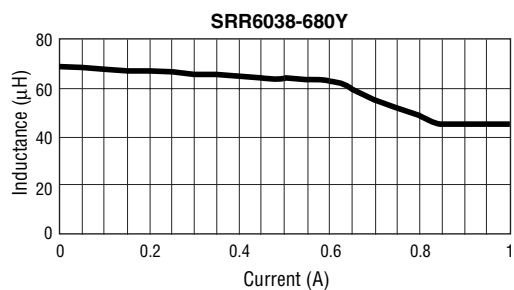
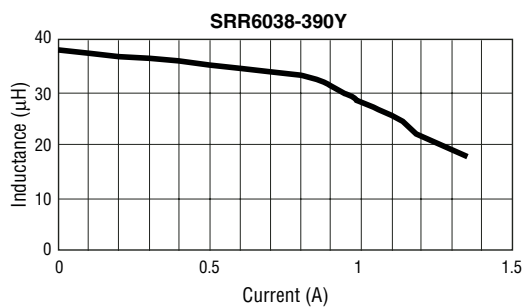


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SRR6038 Series - Shielded SMD Power Inductors

BOURNS®

Inductance vs. Current



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Technical drawing of a 100 ohm resistor, showing top, side, and end views with dimensions in mm and inches.

Top View Dimensions:

- Overall width: 33.0 ± 0.5 mm ($1.299 \pm .020$ inches)
- Distance from top edge to center of first lead: 2.0 ± 0.5 mm ($.079 \pm .020$ inches)
- Lead diameter: 21.0 ± 0.8 mm ($.827 \pm .032$ inches)
- Distance from center of first lead to center of second lead: 13.0 ± 0.5 mm ($.512 \pm .020$ inches)

Side View Dimensions:

- Lead thickness: 22.4 mm ($.882$ inches)
- Distance from top edge to center of first lead: 13.0 ± 0.5 mm ($.512 \pm .020$ inches)
- Distance from center of first lead to center of second lead: $50.0 - 0$ mm ($1.969 - 0$ inches)
- Distance from center of second lead to bottom edge: $18.0 + 0$ mm ($.709 + 0$ inches)

End View Dimensions:

- Distance from top edge to center of first lead: 16.0 mm ($.629$ inches)

Carrier Dimensions:

- Carrier width: 12.0 mm ($.472$ inches)
- Carrier thickness: 4.0 mm ($.157$ inches)

Carrier Features:

- EMBOSSED CAVITY
- EMBOSSED CARRIER

Carrier Layout:

- NO COMPONENT 200 (7.87)
- COMPONENTS 400 (15.75)

USER DIRECTION OF FEED

QTY: 1000 PCS. PER REEL

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[SRR6038-100Y](#) [SRR6038-101Y](#) [SRR6038-120Y](#) [SRR6038-150Y](#) [SRR6038-180Y](#) [SRR6038-220Y](#) [SRR6038-270Y](#)
[SRR6038-390Y](#) [SRR6038-3R3Y](#) [SRR6038-560Y](#) [SRR6038-5R0Y](#) [SRR6038-680Y](#) [SRR6038-6R2Y](#) [SRR6038-7R4Y](#) [SRR6038-820Y](#) [SRR6038-8R7Y](#) [SRR6038-4R7Y](#) [SRR6038-6R8Y](#) [SRR6038-330Y](#) [SRR6038-470Y](#)
[SRR6038-8R2Y](#)