



**THE DATASHEET OF  
SRR5018-3R0Y**





### Features

- Height of 2.0 mm max.
- Current rating up to 3 A
- RoHS compliant\*

### Applications

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

## SRR5018 Series - Shielded 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)
	uH	Tol. (%)						
SRR5018-1R2Y	1.2	±30	9.2	7.96	118	30	3.00	3.50
SRR5018-1R8Y	1.8	±30	8.9	7.96	93	35	2.60	3.00
SRR5018-2R5Y	2.5	±30	8.6	7.96	74	40	2.40	2.70
SRR5018-3R0Y	3.0	±30	8.3	7.96	79	45	2.20	2.40
SRR5018-3R9Y	3.9	±30	8	7.96	64	55	2.00	2.10
SRR5018-4R1Y	4.1	±30	8	7.96	60	55	2.00	2.10
SRR5018-5R0Y	5.0	±30	7.9	7.96	55	60	1.65	1.80
SRR5018-5R4Y	5.4	±30	7.4	7.96	58	76	1.65	1.65
SRR5018-6R2Y	6.2	±30	7.5	7.96	51	80	1.45	1.60
SRR5018-7R5Y	7.5	±30	7.9	7.96	42	90	1.35	1.50
SRR5018-8R9Y	8.9	±30	7.3	7.96	40	116	1.25	1.25
SRR5018-9R0Y	9.0	±30	7.2	7.96	37	110	1.25	1.35
SRR5018-100Y	10	±30	11	2.52	41	130	1.10	1.25
SRR5018-120Y	12	±30	8.6	2.52	39	160	1.00	1.15
SRR5018-150Y	15	±30	12.7	2.52	32	190	0.95	1.10
SRR5018-180Y	18	±30	8.8	2.52	29	210	0.90	1.00
SRR5018-220Y	22	±30	14.7	2.52	22	280	0.80	0.90
SRR5018-270Y	27	±30	10.2	2.52	21	320	0.75	0.80
SRR5018-330Y	33	±30	10.9	2.52	20	350	0.65	0.70
SRR5018-390Y	39	±30	10.6	2.52	17	500	0.55	0.65
SRR5018-470Y	47	±30	8.9	2.52	14	550	0.52	0.60
SRR5018-560Y	56	±30	8.9	2.52	13	600	0.48	0.55
SRR5018-680Y	68	±30	9.9	2.52	12	850	0.40	0.50
SRR5018-820Y	82	±30	9.1	2.52	11	950	0.38	0.45
SRR5018-101Y	100	±30	13.1	0.796	10	1100	0.35	0.42
SRR5018-121Y	120	±30	12.9	0.796	11	1420	0.30	0.40
SRR5018-151Y	150	±30	11.8	0.796	11	1650	0.28	0.35
SRR5018-181Y	180	±30	13.6	0.796	10	2300	0.25	0.32
SRR5018-221Y	220	±30	8.7	0.796	8	2500	0.23	0.30

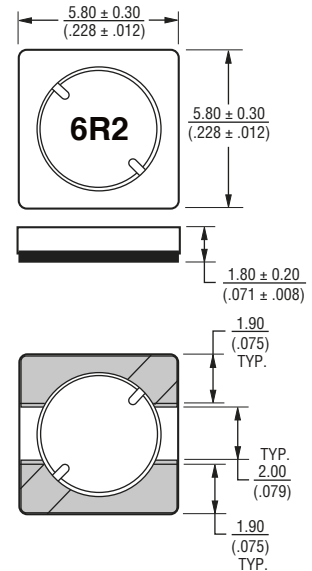
### General Specifications

Test Voltage ..... 0.1 V, 100 KHz  
 Reflow Soldering .. 230 °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, 10 sec.  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM)..... N/A

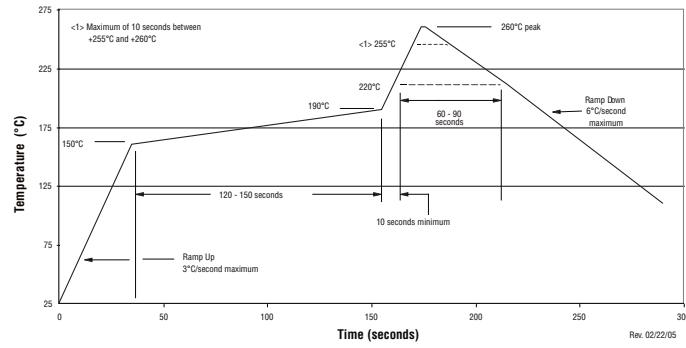
### Materials

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Adhesive ..... Epoxy resin  
 Terminal ..... Ag/Ni/Sn  
 Rated Current ..... Ind. drop of 35 % typ. at Isat  
 Temp. Rise ..... 40 °C typ. at rated Irms  
 Packaging ..... 500 pcs. per reel

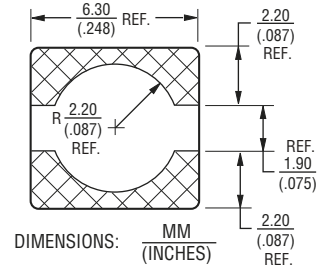
### Product Dimensions



### Soldering Profile



### Recommended Layout



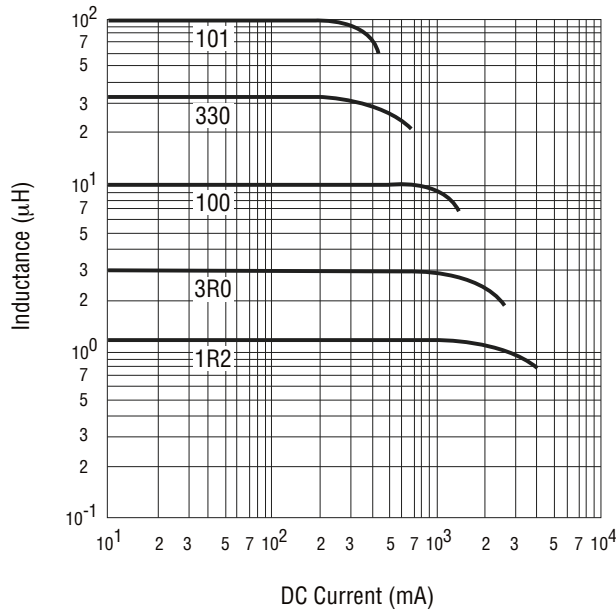
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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](http://www.bourns.com/docs/legal/disclaimer.pdf).

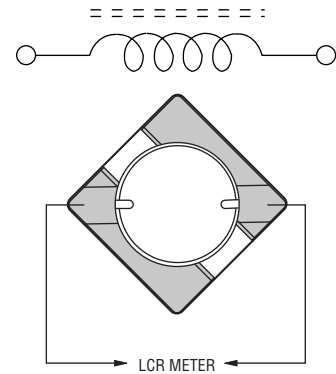
# SRR5018 Series - Shielded Power Inductors

**BOURNS®**

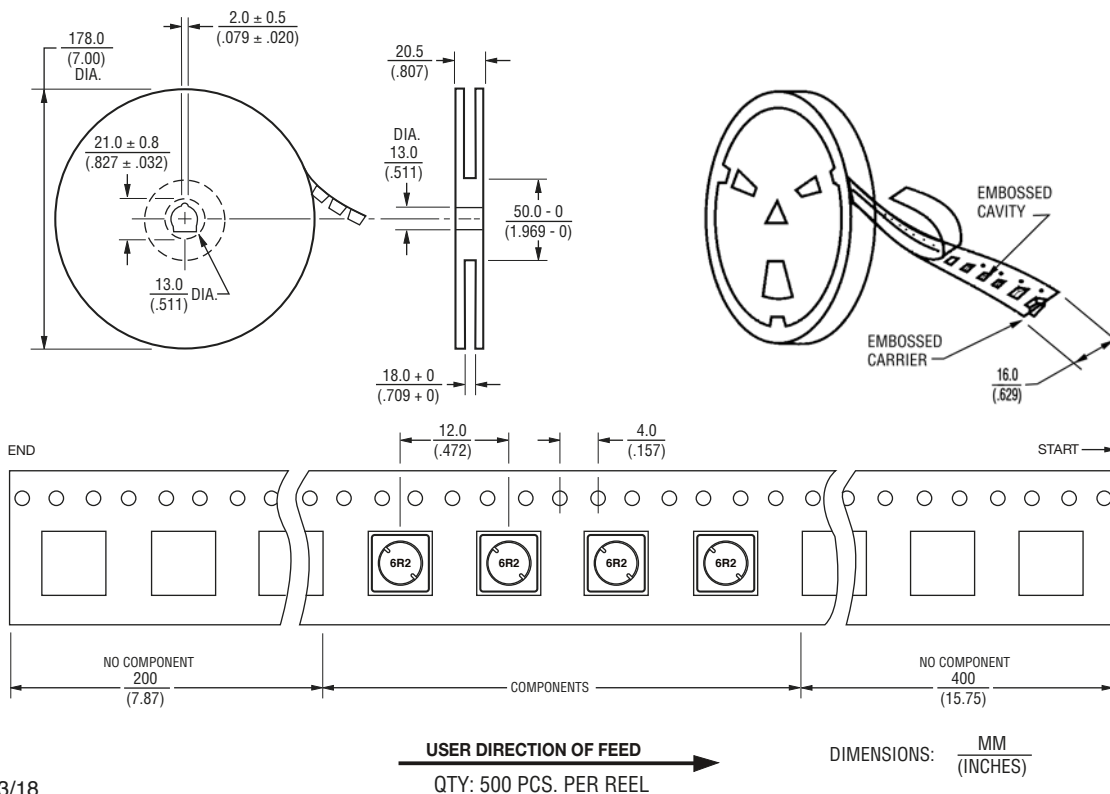
## Inductance vs. Current



## Electrical Schematic



## Packaging Specifications



REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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