



## Features

- Height of 2.0 mm
- Current rating up to 2.7 A
- RoHS compliant\*

## Additional Information

Click these links for more information:



# SRR4018 Series - Shielded SMD Power Inductors

## Electrical Characteristics

Bourns Part Number	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (mΩ)	I rms (A)	I sat (A)
	(μH)	Tol. %						
SRR4018-1R0Y	1.0	±30	9	7.960	219	35	2.70	2.60
SRR4018-1R8Y	1.8	±30	9	7.960	105	58	2.35	2.20
SRR4018-2R2Y	2.2	±30	8	7.960	90	55	2.10	2.10
SRR4018-2R7Y	2.7	±30	8	7.960	78	60	2.03	1.95
SRR4018-3R3Y	3.3	±30	8	7.960	61	65	1.95	1.80
SRR4018-3R9Y	3.9	±30	8	7.960	60	75	1.82	1.65
SRR4018-4R7Y	4.7	±30	8	7.960	55	82	1.72	1.50
SRR4018-5R6Y	5.6	±30	7	7.960	57	90	1.64	1.25
SRR4018-6R8Y	6.8	±30	8	7.960	49	100	1.50	1.15
SRR4018-8R2Y	8.2	±30	7	7.960	40	135	1.40	1.10
SRR4018-100Y	10	±30	10	2.520	38	150	1.30	1.00
SRR4018-120Y	12	±30	9	2.520	32	170	1.15	0.90
SRR4018-150Y	15	±30	8	2.520	30	220	1.03	0.82
SRR4018-180Y	18	±30	7	2.520	30	280	0.92	0.75
SRR4018-220Y	22	±30	7	2.520	29	300	0.88	0.65
SRR4018-270Y	27	±30	7	2.520	23	370	0.77	0.60
SRR4018-330Y	33	±30	7	2.520	21	420	0.73	0.50
SRR4018-390Y	39	±30	8	2.520	19	540	0.64	0.48
SRR4018-470Y	47	±30	8	2.520	20	600	0.62	0.45
SRR4018-560Y	56	±30	8	2.520	15	820	0.52	0.40
SRR4018-680Y	68	±30	7	2.520	13	860	0.50	0.38
SRR4018-820Y	82	±30	8	2.520	13	1200	0.43	0.32
SRR4018-101Y	100	±30	10	0.796	12	1350	0.40	0.30
SRR4018-121Y	120	±30	11	0.796	10	1950	0.33	0.28
SRR4018-151Y	150	±30	14	0.796	10	2600	0.28	0.26
SRR4018-181Y	180	±30	10	0.796	10	4000	0.18	0.25

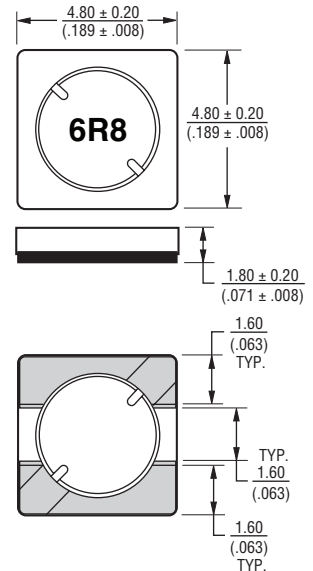
## General Specifications

Test Voltage ..... 0.1 V  
 Operating Temp. .... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature.. -40 °C to +125 °C  
 Moisture Sensitivity Level..... 1  
 ESD Classification (HBM)..... N/A

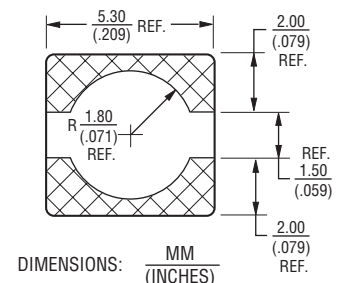
## Materials

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Adhesive..... Epoxy resin  
 Terminal Finish ..... SnAgCu  
 Rated Current  
 ..... Ind. drop 35 % typ. at Isat  
 Temperature Rise..... 30 °C typ.  
 at rated Irms  
 Packaging..... 800 pcs. per reel

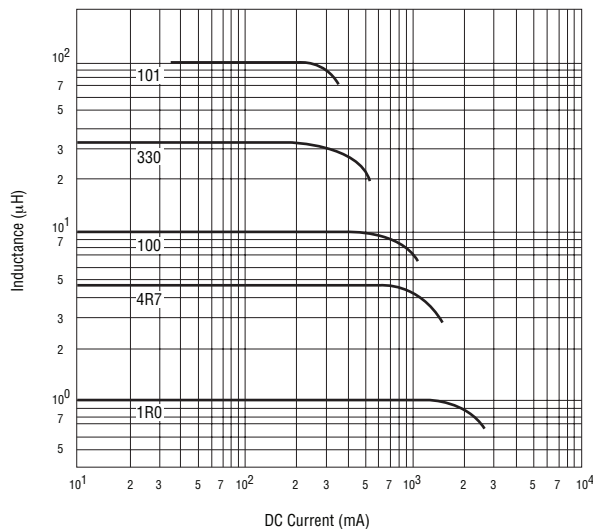
## Product Dimensions



## Recommended Layout



## Inductance vs. Current



\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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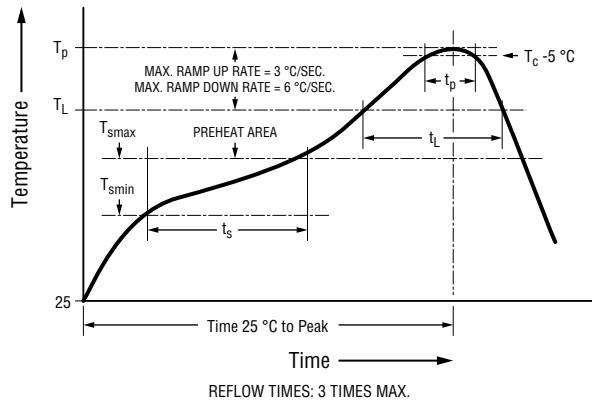
## Applications

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

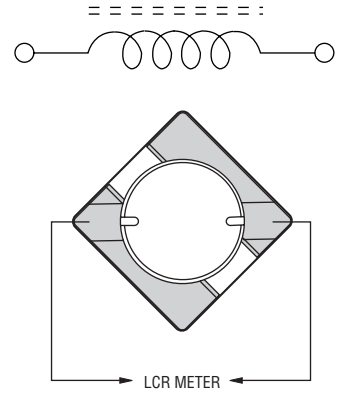
## SRR4018 Series - Shielded SMD Power Inductors

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### Soldering Profile



### Electrical Schematic



Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> <li>- Temperature Min. (<math>T_{smin}</math>)</li> <li>- Temperature Max. (<math>T_{smax}</math>)</li> <li>- Time (<math>t_s</math>) from <math>T_{smin}</math> to <math>T_{smax}</math></li> </ul>	150 °C 200 °C 60-120 seconds
Ramp-up Rate ( $T_L$ to $T_p$ )	3 °C/second max.
Liquidous temperature ( $T_L$ ) Time ( $t_L$ ) maintained above $T_L$	217 °C 60-150 seconds
Classification Temperature ( $T_c$ )	260 °C
Time ( $t_p$ ) at $T_c - 5$ °C ( $T_p$ should be equal to or less than $T_c$ )	< 30 seconds
Ramp-Down Rate ( $T_p$ to $T_L$ )	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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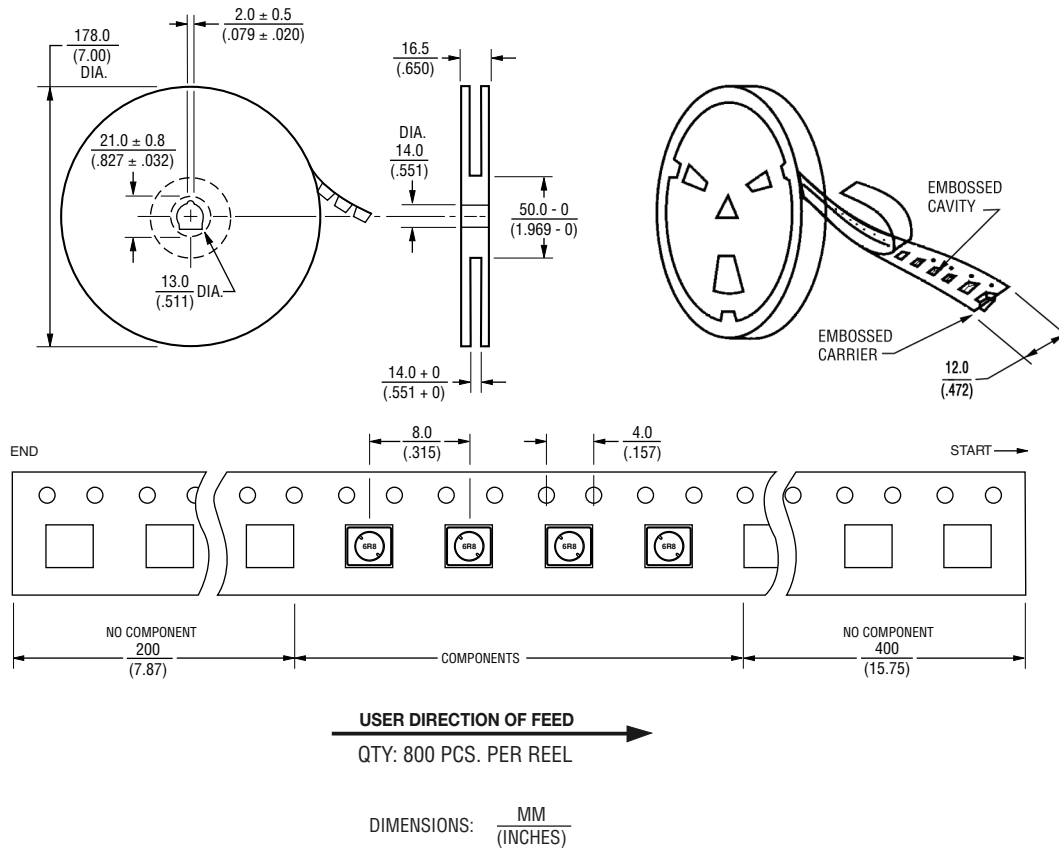
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# SRR4018 Series - Shielded SMD Power Inductors

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## Packaging Specifications



REV. 03/26

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