



Features

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

Additional Information

Click these links for more information:

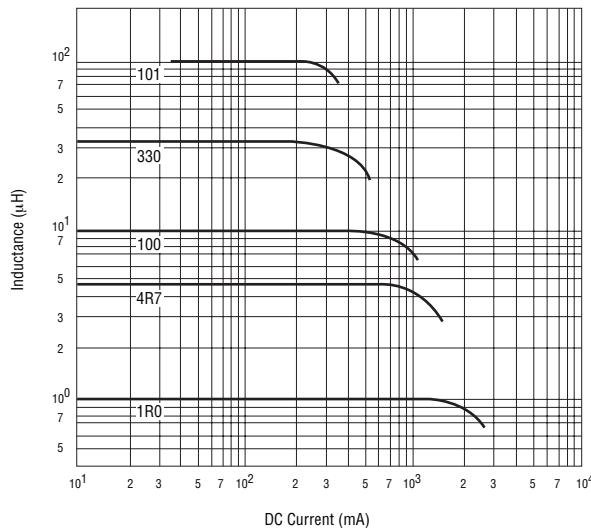


SRR4018 Series - Shielded SMD Power Inductors

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

Inductance vs. Current



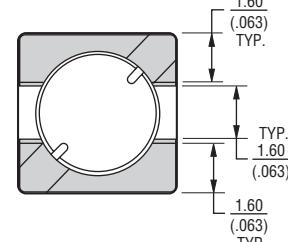
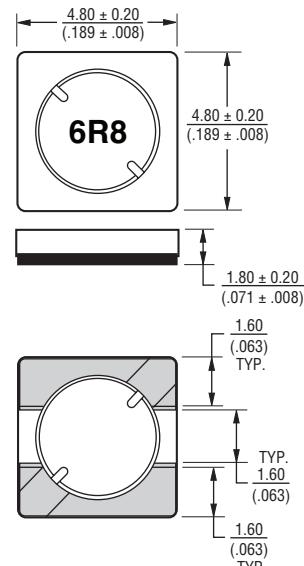
General Specifications

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

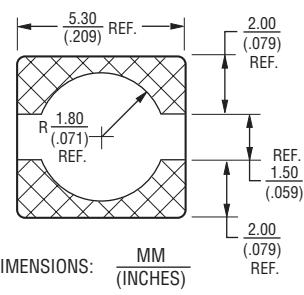
Materials

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



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

*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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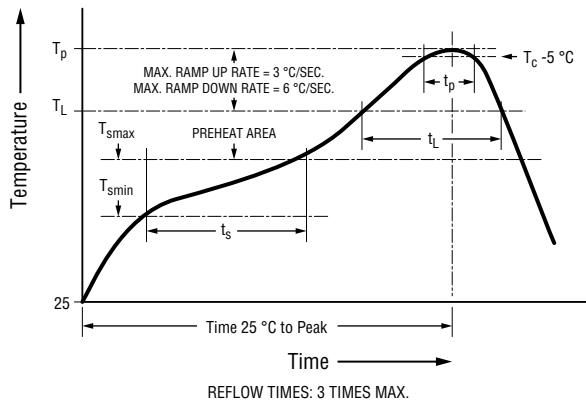
Applications

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

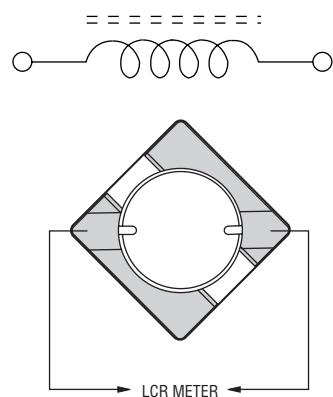
SRR4018 Series - Shielded SMD Power Inductors

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Soldering Profile



Electrical Schematic



Profile Feature	Pb Free Assembly
Preheat	
- Temperature Min. (T_{smin})	150 °C
- Temperature Max. (T_{smax})	200 °C
- Time (t_s) from T_{smin} to T_{smax}	60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L)	217 °C
Time (t_L) maintained above T_L	60-150 seconds
Peak package body temperature (T_p)	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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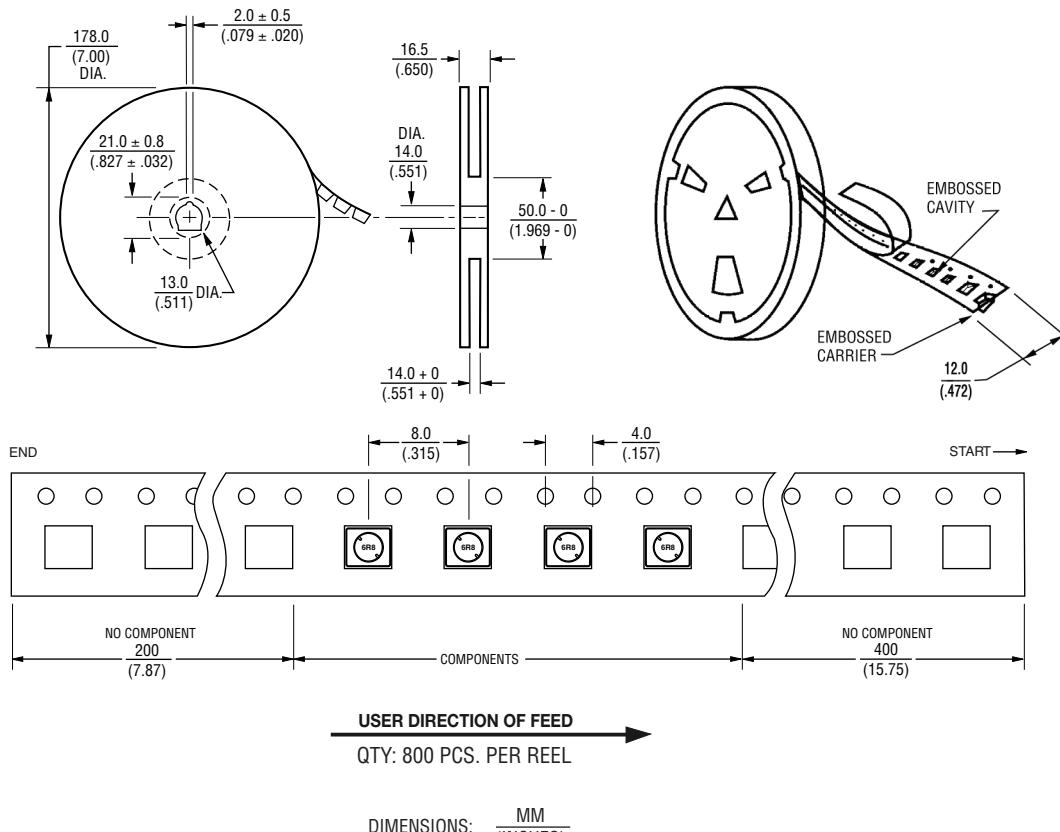
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Packaging Specifications



REV. 12/25

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