



THE DATASHEET OF SRR4018-6R8Y



Features

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

Applications

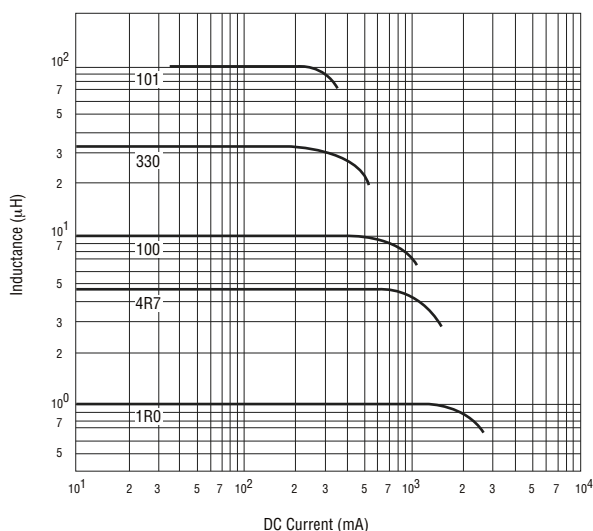
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

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



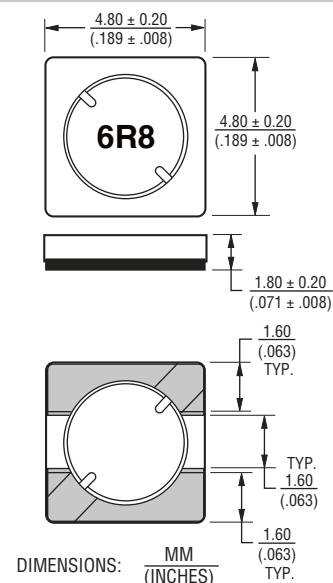
General Specifications

Test Voltage 0.1 V
 Reflow Soldering ... 230 °C, 50 sec. max.
 Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature.. -40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.
 Moisture Sensitivity Level..... 1
 ESD Classification (HBM)..... N/A

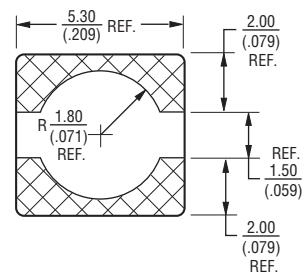
Materials

Core Ferrite
 Wire Enameled copper
 Adhesive..... Epoxy resin
 Terminal..... Ag/Ni/Sn
 Rated Current
 Ind. drop 35 % typ. at I_{sat}
 Temperature Rise..... 30 °C typ.
 at rated I_{rms}
 Packaging..... 800 pcs. per reel

Product Dimensions



Recommended Layout



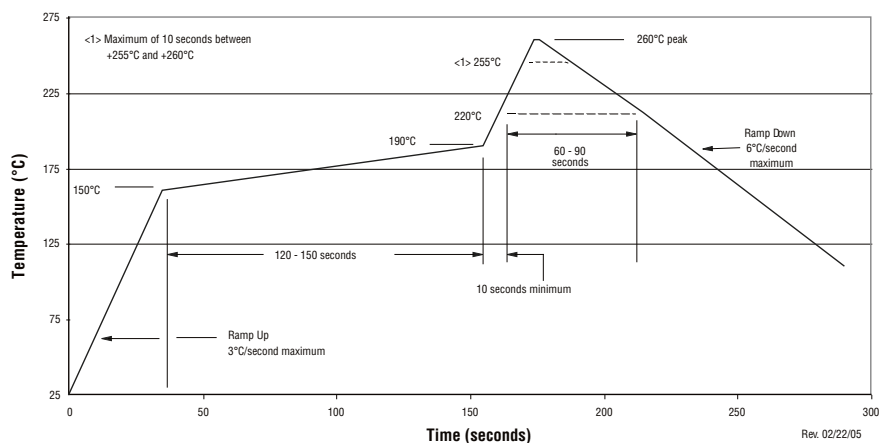
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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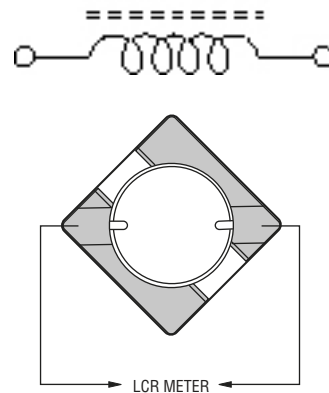
SRR4018 Series - Shielded SMD Power Inductors

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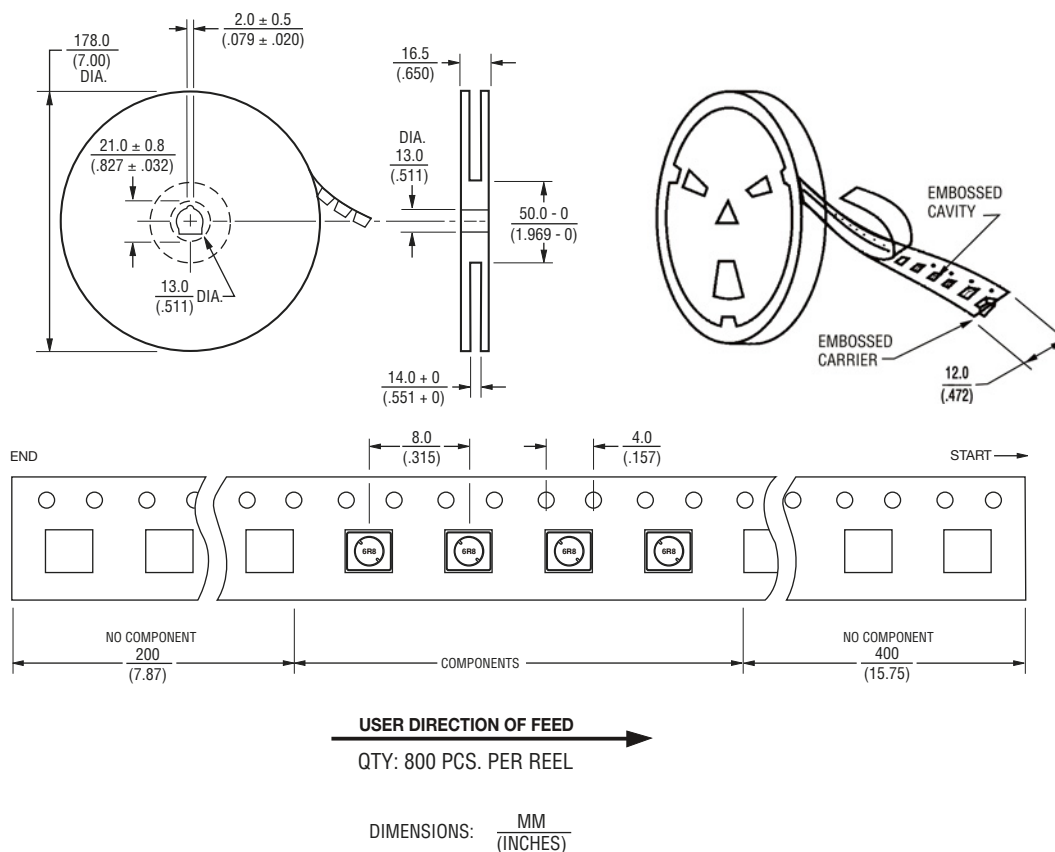
Soldering Profile



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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