



Features

- Height of 3.0 mm max.
- Current rating up to 3.4 A
- RoHS compliant*

Applications

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

SRR6028 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. %						
SRR6028-1R5Y	1.5	±30	8	7.96	55	14	3.40	3.50
SRR6028-2R5Y	2.5	±30	8.5	7.96	50	25	2.80	3.00
SRR6028-3R0Y	3.0	±30	9	7.96	45	28	3.00	2.60
SRR6028-3R3Y	3.3	±30	10	7.96	45	28	2.50	2.60
SRR6028-3R9Y	3.9	±30	9	7.96	40	32	2.45	2.30
SRR6028-5R0Y	5.0	±30	7.5	7.96	38	36	2.40	2.10
SRR6028-6R0Y	6.0	±30	9	7.96	35	40	2.30	2.00
SRR6028-7R3Y	7.3	±30	6	7.96	30	52	2.20	1.85
SRR6028-8R6Y	8.6	±30	8	2.52	28	56	2.10	1.82
SRR6028-100Y	10	±30	11	2.52	25	65	2.00	1.70
SRR6028-120Y	12	±30	10	2.52	24	70	1.90	1.50
SRR6028-150Y	15	±30	9.5	2.52	22	78	1.70	1.30
SRR6028-180Y	18	±30	9	2.52	21	85	1.50	1.10
SRR6028-220Y	22	±30	8.5	2.52	20	115	1.40	1.08
SRR6028-270Y	27	±30	9	2.52	19	130	1.20	1.00
SRR6028-330Y	33	±30	10	2.52	18	155	1.15	0.92
SRR6028-390Y	39	±30	10	2.52	17	195	1.00	0.75
SRR6028-470Y	47	±30	10	2.52	16	235	0.92	0.72
SRR6028-560Y	56	±30	10	0.796	15	260	0.85	0.65
SRR6028-680Y	68	±30	11	0.796	15	300	0.80	0.60
SRR6028-820Y	82	±30	9	0.796	14	400	0.70	0.56
SRR6028-101Y	100	±30	8.5	0.796	14	500	0.58	0.55
SRR6028-151Y	150	±30	12	0.796	13	680	0.50	0.42
SRR6028-221Y	220	±30	15	0.796	12	820	0.45	0.36
SRR6028-331Y	330	±30	11	0.796	10	1400	0.37	0.27
SRR6028-471Y	470	±30	11	0.796	9	2100	0.27	0.22
SRR6028-681Y	680	±30	13	0.796	8	3100	0.22	0.20
SRR6028-102Y	1000	±30	32	0.252	7	4500	0.15	0.17

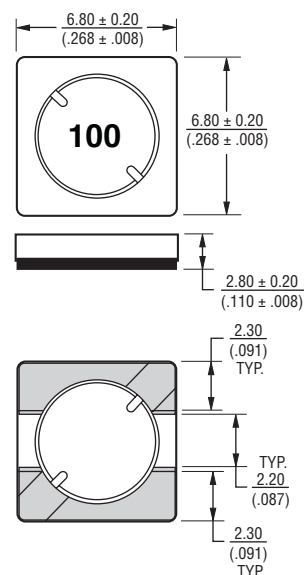
General Specifications

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.
 Moisture Sensitivity Level.....1
 ESD Classification (HBM).....3B

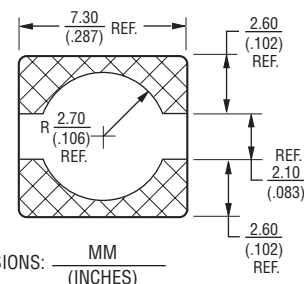
Materials

Core Material.....Ferrite
 WireEnamelled Copper
 Adhesive.....Epoxy Resin
 Terminal.....Ag/Ni/Sn
 Rated CurrentInd. drop of 35 % typ.
 at I_{sat}
 Temperature Rise30 °C typ. at I_{rms}
 Packaging.....500 pcs. per reel

Product Dimensions

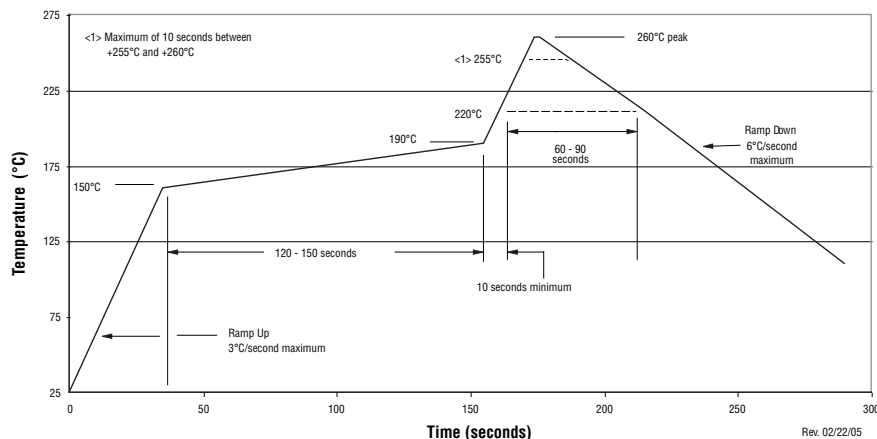


Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Soldering Profile



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

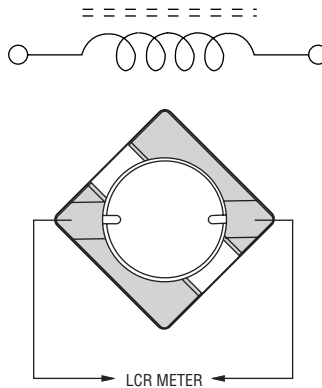
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

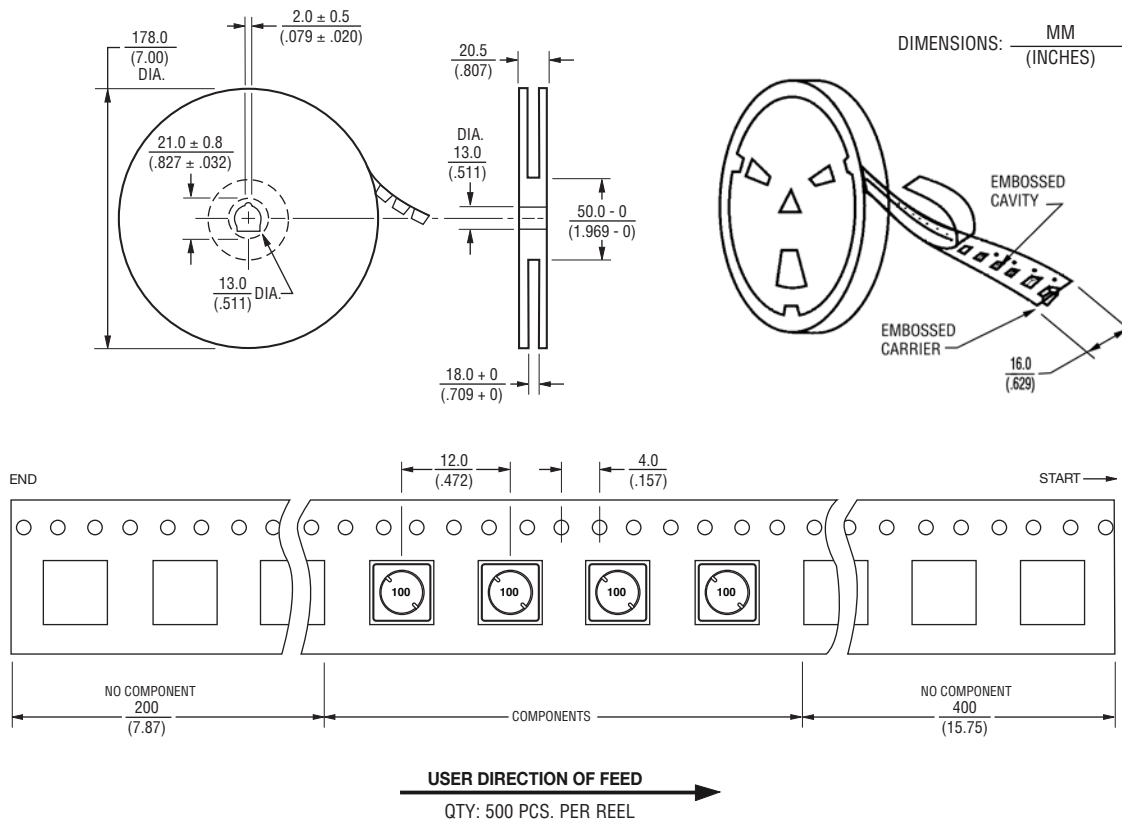
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BOURNS®

Electrical Schematic



Packaging Specifications



REV. 07/17

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