



Features

- Height of 3.0 mm max.
- Current rating up to 3.1 A
- RoHS compliant*

Applications

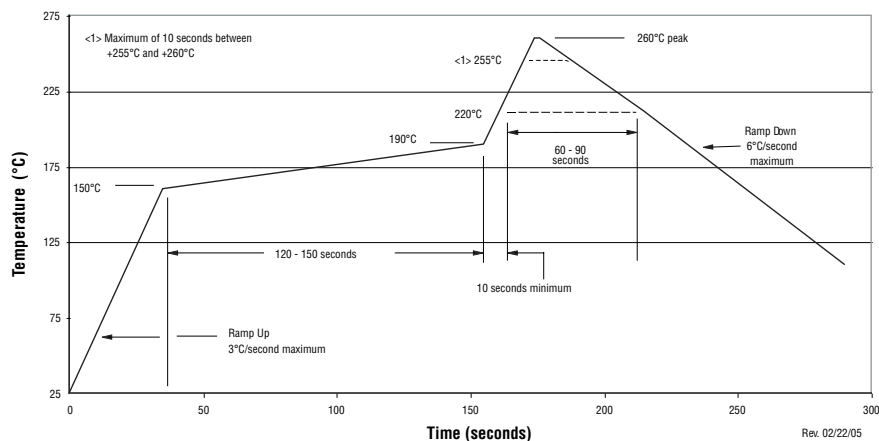
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR4028 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. %						
SRR4028-1R2Y	1.2	±30	9.34	7.96	176	20	3.10	2.560
SRR4028-1R8Y	1.8	±30	9.18	7.96	146	25	2.70	2.200
SRR4028-2R2Y	2.2	±30	9.24	7.96	111	28	2.50	2.050
SRR4028-2R7Y	2.7	±30	8.64	7.96	92	30	2.35	1.800
SRR4028-3R3Y	3.3	±30	7.72	7.96	76	35	2.15	1.650
SRR4028-3R9Y	3.9	±30	8.58	7.96	56	60	1.72	1.500
SRR4028-4R7Y	4.7	±30	8.12	7.96	55	70	1.55	1.300
SRR4028-5R6Y	5.6	±30	9.56	7.96	69	85	1.38	1.200
SRR4028-6R8Y	6.8	±30	9.624	7.96	77	90	1.30	1.150
SRR4028-8R2Y	8.2	±30	8.24	7.96	45	100	1.25	1.050
SRR4028-100Y	10	±30	11.26	2.52	34	110	1.19	1.000
SRR4028-120Y	12	±30	11.26	2.52	25	125	1.12	0.850
SRR4028-150Y	15	±30	9.66	2.52	27	150	1.03	0.780
SRR4028-180Y	18	±30	11.64	2.52	25	160	0.98	0.750
SRR4028-220Y	22	±30	8.26	2.52	23	185	0.93	0.720
SRR4028-270Y	27	±30	10.76	2.52	18	200	0.89	0.600
SRR4028-330Y	33	±30	9.7	2.52	16	230	0.82	0.580
SRR4028-390Y	39	±30	9.74	2.52	14	250	0.80	0.500
SRR4028-470Y	47	±30	10.88	2.52	13	280	0.75	0.480
SRR4028-560Y	56	±30	9	2.52	13	320	0.70	0.410
SRR4028-680Y	68	±30	8.42	2.52	11	400	0.63	0.360
SRR4028-820Y	82	±30	8.6	2.52	8	520	0.56	0.320
SRR4028-101Y	100	±30	8.78	0.796	9	600	0.51	0.300
SRR4028-121Y	120	±30	13.32	0.796	8	700	0.47	0.280
SRR4028-151Y	150	±30	11.72	0.796	6	860	0.42	0.260
SRR4028-181Y	180	±30	13.86	0.796	7	1000	0.39	0.230
SRR4028-221Y	220	±30	11.3	0.796	5	1250	0.34	0.200
SRR4028-271Y	270	±30	17.46	0.796	5	1500	0.32	0.180
SRR4028-331Y	330	±30	16.48	0.796	5	1700	0.30	0.170
SRR4028-391Y	390	±30	13.18	0.796	4	2200	0.26	0.160
SRR4028-471Y	470	±30	13.26	0.796	3	2600	0.24	0.155
SRR4028-561Y	560	±30	16.46	0.796	3	3000	0.22	0.150

Soldering Profile



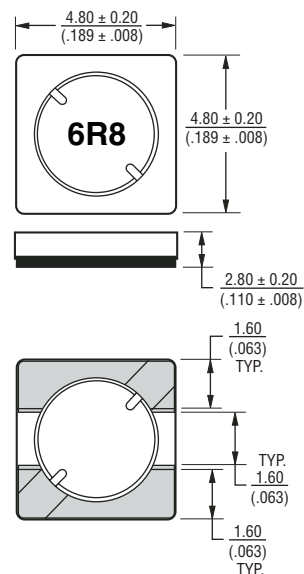
General Specifications

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.

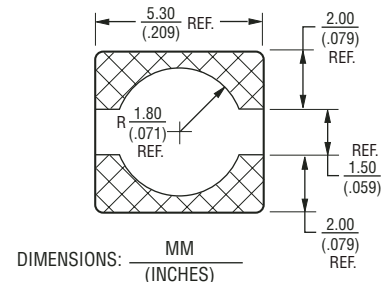
Materials

Core Material.....Ferrite
 WireEnameled 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

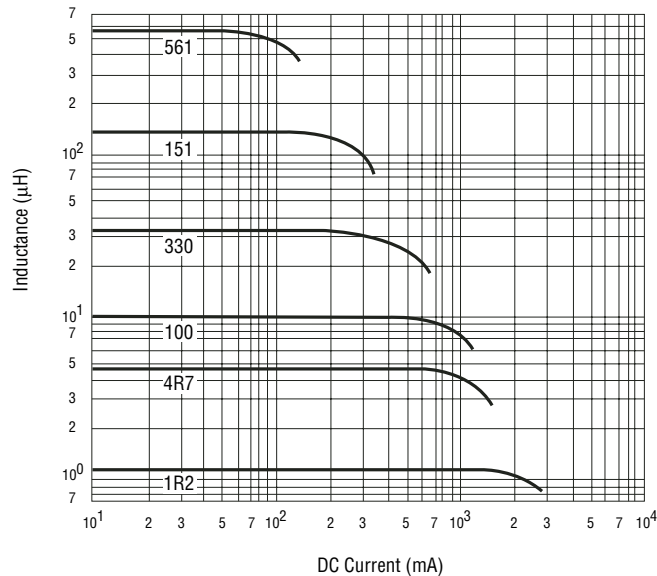


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

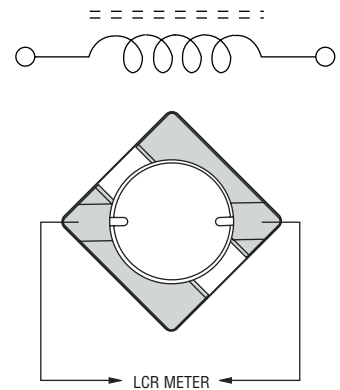
SRR4028 Series - Shielded SMD Power Inductors

BOURNS®

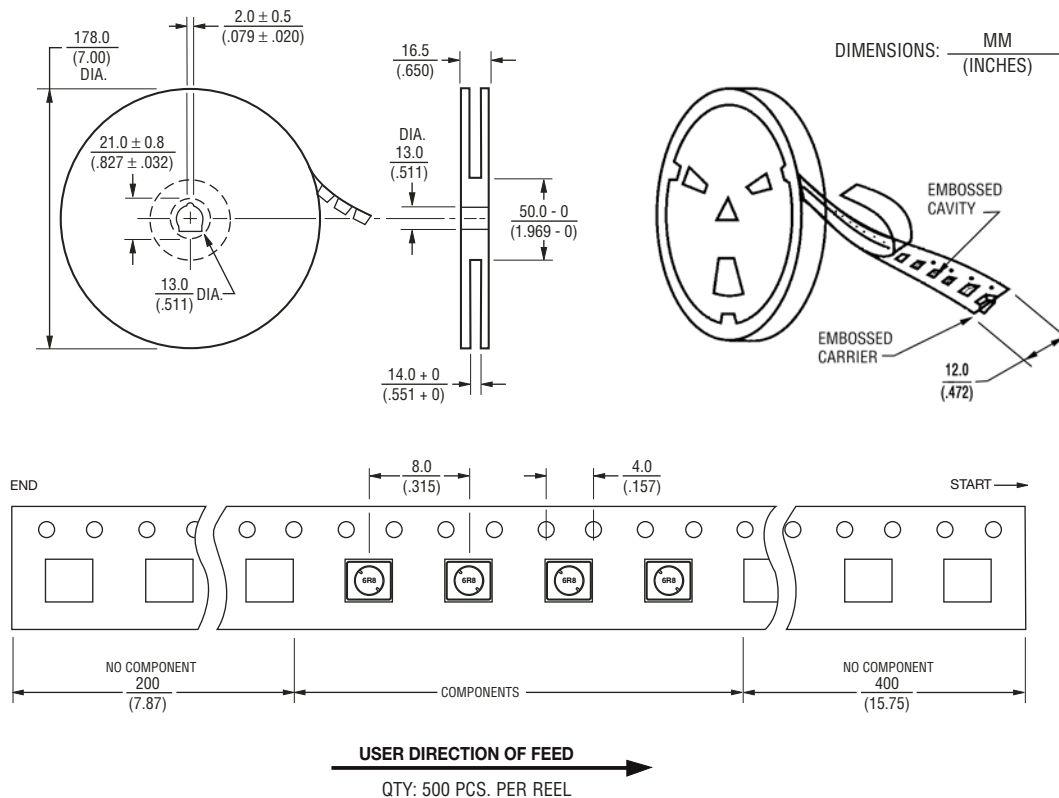
Inductance vs. Current



Electrical Schematic



Packaging Specifications



08/07

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