



**THE DATASHEET OF
SRR4028-270Y**





Features

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

Applications

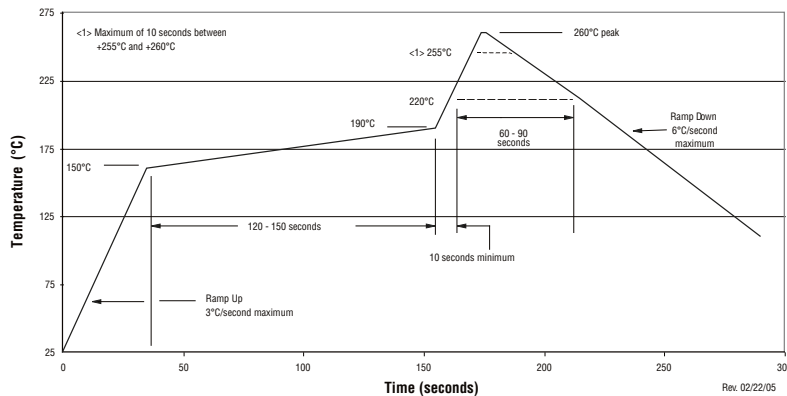
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

SRR4028 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. %						
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



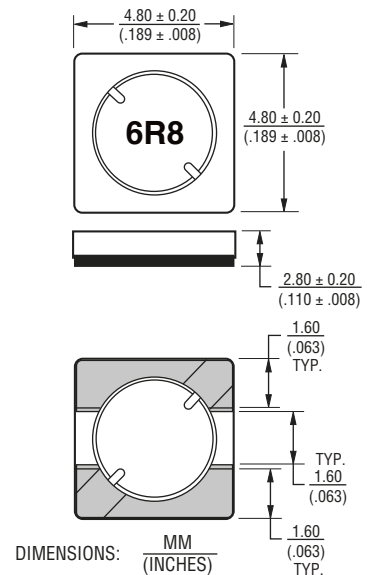
General Specifications

Test 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

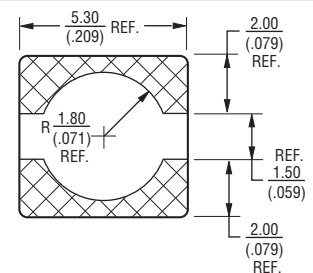
Materials

Core Ferrite
 Wire Enameled copper
 Adhesive..... Epoxy resin
 Terminal..... Ag/Ni/Sn
 Rated Current
 Ind. drop 35 % typ. at Isat
 Temperature Rise..... 30 °C typ.
 at rated Irms
 Packaging..... 500 pcs. per reel

Product Dimensions



Recommended Layout



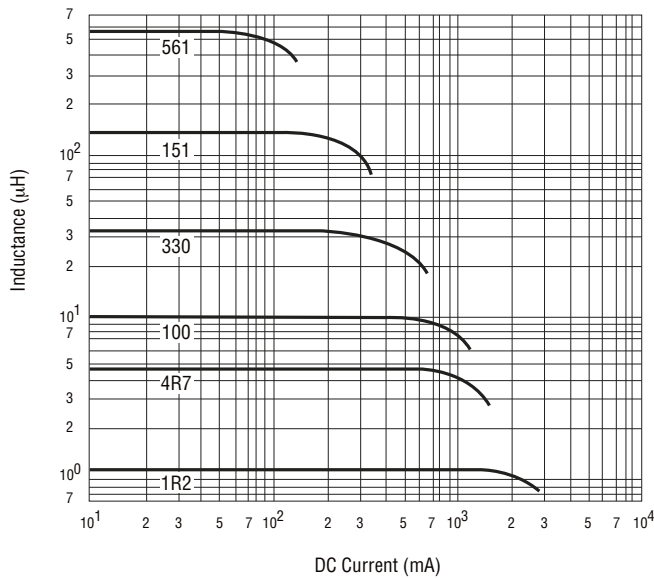
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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SRR4028 Series - Shielded SMD Power Inductors

BOURNS®

Inductance vs. Current



Electrical Schematic



Packaging Specifications



REV. 03/18

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