

Features

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

Applications

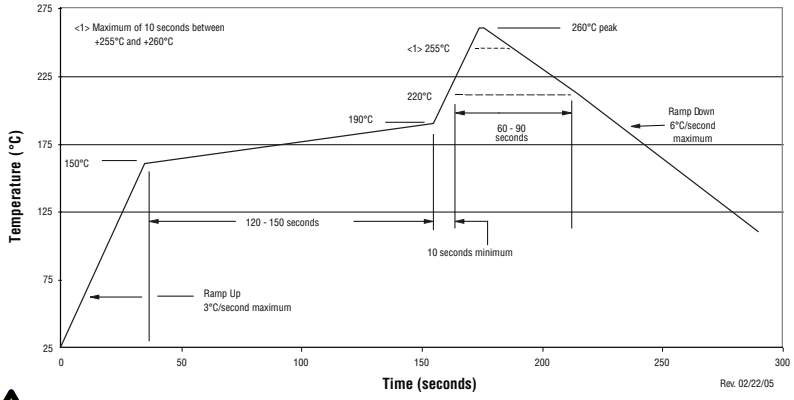
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

SRR5028 Series - Shielded SMD Power Inductors

Electrical Characteristics

Bourns Part Number	Inductance 100 kHz (µH)	Tol. %	Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (mΩ)	I rms (A)	I sat (A)
SRR5028-2R6Y	2.6	±30	7	7.96	77	30	3.00	2.70
SRR5028-3R0Y	3.0	±30	7	7.96	65	30	2.80	2.50
SRR5028-4R2Y	4.2	±30	7	7.96	51	35	2.50	2.20
SRR5028-5R3Y	5.3	±30	7	7.96	45	40	2.30	1.90
SRR5028-6R2Y	6.2	±30	7	7.96	39	45	2.20	1.80
SRR5028-8R2Y	8.2	±30	7	7.96	34	55	2.10	1.60
SRR5028-100Y	10	±30	9	2.52	30	70	1.50	1.40
SRR5028-120Y	12	±30	11	2.52	28	80	1.46	1.25
SRR5028-150Y	15	±30	9	2.52	22	100	1.37	1.15
SRR5028-180Y	18	±30	10	2.52	20	110	1.25	1.10
SRR5028-220Y	22	±30	7	2.52	20	120	1.15	1.00
SRR5028-270Y	27	±30	10	2.52	17	160	1.05	0.90
SRR5028-330Y	33	±30	11	2.52	13	190	0.90	0.78
SRR5028-390Y	39	±30	8	2.52	13	210	0.86	0.72
SRR5028-470Y	47	±30	7	2.52	13	250	0.82	0.65
SRR5028-560Y	56	±30	9	2.52	12	300	0.72	0.60
SRR5028-680Y	68	±30	8	2.52	11	350	0.62	0.56
SRR5028-820Y	82	±30	8	2.52	9	430	0.52	0.50
SRR5028-101Y	100	±30	8	0.796	8	480	0.45	0.45
SRR5028-151Y	150	±30	7	0.796	7.5	900	0.33	0.35
SRR5028-181Y	180	±30	11	0.796	6.3	1000	0.32	0.31
SRR5028-221Y	220	±30	7	0.796	6.5	1250	0.30	0.30
SRR5028-331Y	330	±30	8	0.796	5	2000	0.20	0.20
SRR5028-471Y	470	±30	12	0.796	5	2500	0.30	0.23
SRR5028-561Y	560	±30	12	0.796	4	3920	0.14	0.14
SRR5028-681Y	680	±30	11	0.796	3	4300	0.13	0.14

Soldering Profile



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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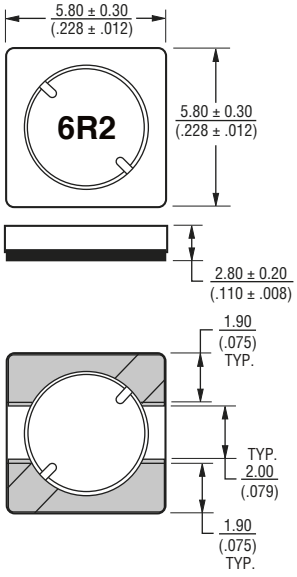
General Specifications

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

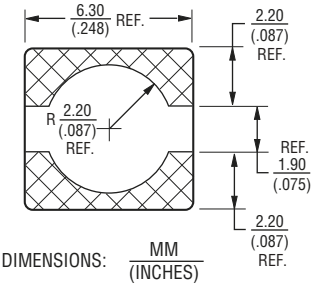
Materials

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..... 400 pcs. per reel

Product Dimensions



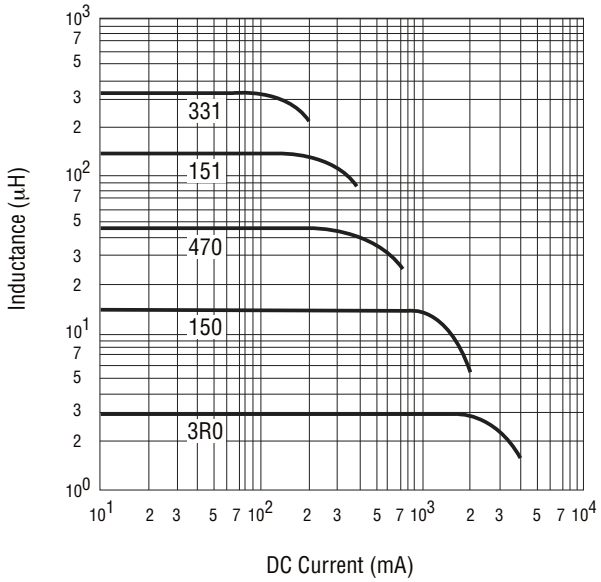
Recommended Layout



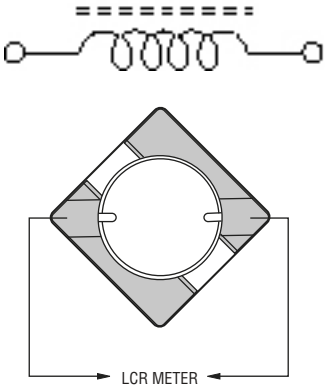
SRR5028 Series - Shielded SMD Power Inductors

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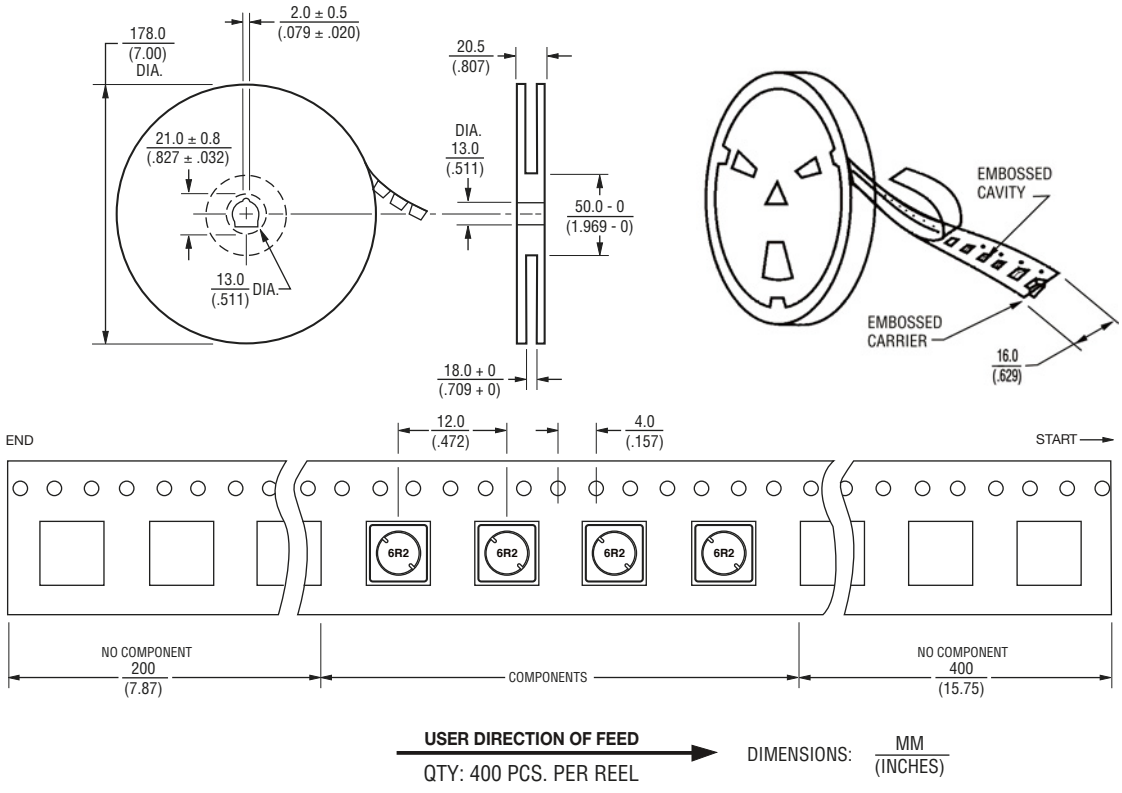
Inductance vs. Current



Electrical Schematic



Packaging Specifications



REV. 05/18

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