

Features

- Available in E6 values
- Current rating to 3.50 amps
- RoHS compliant*

Applications

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

SRR7045 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 KHz uH	Tol. %	Q Typ.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
SRR7045-1R0M	1.0	±20	10	7.96	60	0.020	3.50	3.20
SRR7045-2R2M	2.2	±20	10	7.96	60	0.022	2.80	2.50
SRR7045-2R7M	2.7	±20	10	7.96	60	0.027	2.78	3.10
SRR7045-3R3M	3.3	±20	10	7.96	43	0.027	2.50	2.20
SRR7045-3R9M	3.9	±20	10	7.96	40	0.028	2.71	2.43
SRR7045-4R7M	4.7	±20	10	7.96	35	0.030	2.64	2.20
SRR7045-5R6M	5.6	±20	10	7.96	33	0.036	2.38	2.00
SRR7045-6R3M	6.3	±20	10	7.96	30	0.038	2.33	1.85
SRR7045-6R8M	6.8	±20	10	7.96	28	0.036	2.20	2.00
SRR7045-100M	10	±20	30	2.52	25	0.042	2.00	1.70
SRR7045-120M	12	±20	27	2.52	23	0.050	1.85	1.40
SRR7045-150M	15	±20	31	2.52	24	0.062	1.60	1.35
SRR7045-180M	18	±20	29	2.52	21	0.070	1.50	1.15
SRR7045-220M	22	±20	26	2.52	21	0.070	1.50	1.15
SRR7045-270M	27	±20	25	2.52	18	0.110	1.25	1.00
SRR7045-330M	33	±20	25	2.52	12	0.115	1.15	0.90
SRR7045-390M	39	±20	26	2.52	13	0.130	1.10	0.80
SRR7045-470M	47	±20	29	2.52	11	0.150	0.95	0.78
SRR7045-560M	56	±20	21	2.52	11	0.200	0.85	0.65
SRR7045-680M	68	±20	22	2.52	10	0.210	0.77	0.60
SRR7045-820M	82	±20	22	2.52	9	0.280	0.70	0.60
SRR7045-101M	100	±20	40	0.796	8	0.300	0.65	0.50
SRR7045-121M	120	±20	30	0.796	7	0.420	0.60	0.45
SRR7045-151M	150	±20	51	0.796	7	0.480	0.53	0.41
SRR7045-181M	180	±20	52	0.796	5	0.660	0.475	0.375
SRR7045-221M	220	±20	44	0.796	5	0.700	0.45	0.36
SRR7045-271M	270	±20	30	0.796	5	0.840	0.40	0.275
SRR7045-331M	330	±20	65	0.796	4	0.730	0.40	0.25
SRR7045-391M	390	±20	27	0.796	5	1.200	0.35	0.225
SRR7045-471M	470	±20	80	0.796	3	1.100	0.32	0.22
SRR7045-561M	560	±20	27	0.796	4	1.600	0.30	0.20
SRR7045-681M	680	±20	65	0.796	3	1.600	0.27	0.20
SRR7045-821M	820	±20	26	0.796	3	2.200	0.25	0.175
SRR7045-102M	1000	±20	90	0.252	3	2.400	0.25	0.15

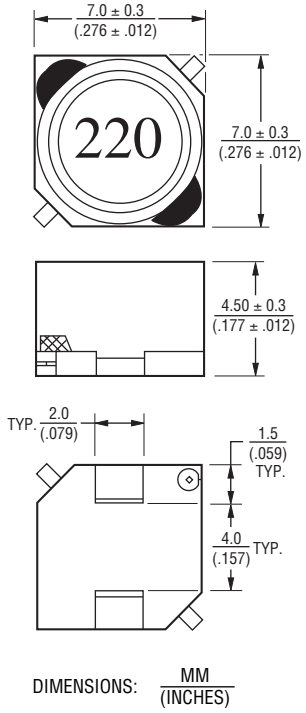
General Specifications

Test Voltage.....0.5 V
Reflow Soldering .. 230 °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.

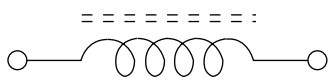
Materials

Core..... Ferrite DR & RI
Wire ..... Enameled copper wire 130
Terminal.....Cu/Ni/Sn
Rated Current
.....Ind. drop of 10 % typ. at Isat
(-1R0M through -221M)
.....Ind. drop of 25 % typ. at Isat
(-271M through -102M)
Temperature Rise
.....30 °C max. at rated Irms
Packaging..... 1000 pcs. per reel

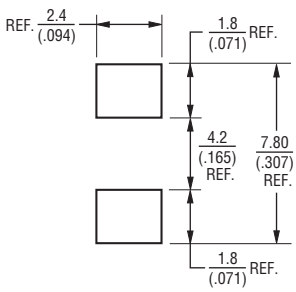
Product Dimensions



Schematic



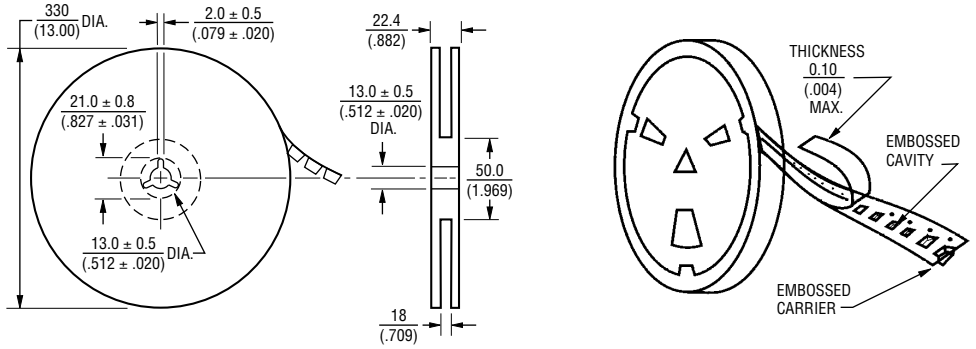
Recommended Layout

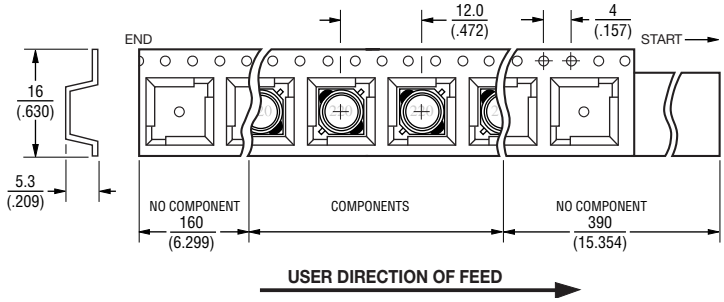


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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.

Packaging Specifications





QTY: 1000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 02/13

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