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

SRR7045 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 KHz uH	Inductance 1 KHz 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

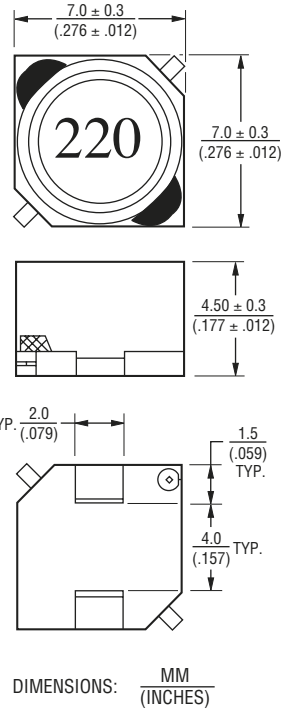
General Specifications

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.
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

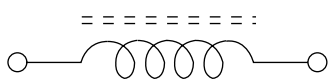
Materials

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

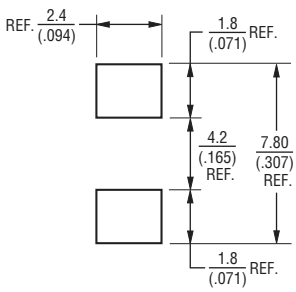
Product Dimensions



Schematic



Recommended Layout



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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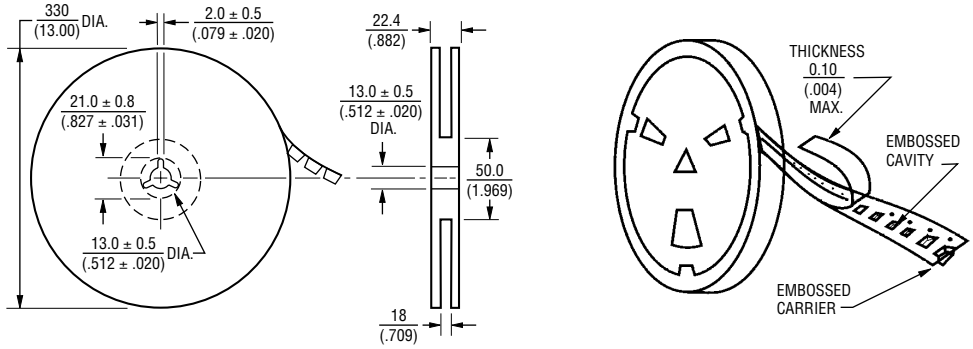
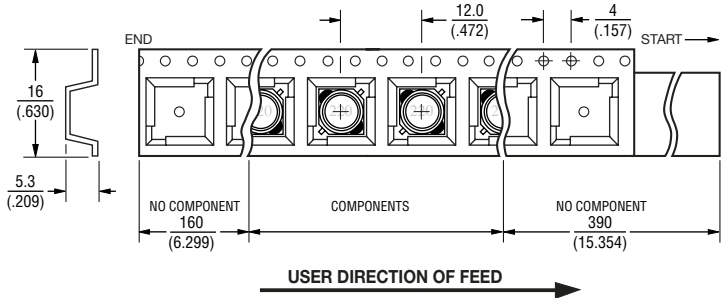
Packaging Specifications





QTY: 1000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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REV. 03/18

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