THE DATASHEET OF

SRR0805-120M

Features

- Available in E12 series
- Low profile - 4.7 mm unit height
- High current
- RoHS compliant*

Applications

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

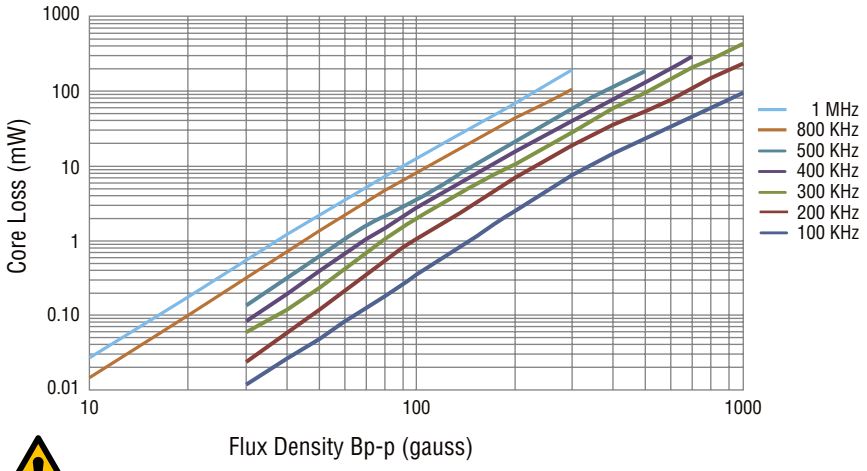
SRR0805 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 KHz µH	Tol. %	Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
SRR0805-2R2M	2.2	± 20	18	7.96M	75.0	0.040	2.50	4.90	202
SRR0805-3R9M	3.9	± 20	20	7.96M	50.0	0.055	2.10	3.70	159
SRR0805-5R6M	5.6	± 20	20	7.96M	40.0	0.065	1.95	3.20	132
SRR0805-8R2M	8.2	± 20	19	7.96M	32.0	0.080	1.75	2.50	104
SRR0805-100M	10	± 20	40	2.52M	28.0	0.100	1.50	2.20	92
SRR0805-120M	12	± 20	40	2.52M	24.0	0.120	1.40	2.10	87
SRR0805-150M	15	± 20	40	2.52M	22.0	0.140	1.30	1.80	78
SRR0805-180Y	18	± 15	40	2.52M	19.0	0.160	1.20	1.70	70
SRR0805-220Y	22	± 15	38	2.52M	19.0	0.180	1.10	1.50	62
SRR0805-270Y	27	± 15	35	2.52M	15.5	0.200	1.00	1.40	57
SRR0805-330Y	33	± 15	40	2.52M	13.5	0.240	0.92	1.20	51
SRR0805-390Y	39	± 15	35	2.52M	12.0	0.260	0.84	1.10	48
SRR0805-470Y	47	± 15	32	2.52M	10.5	0.280	0.75	1.00	43
SRR0805-560K	56	± 10	30	2.52M	9.5	0.380	0.68	0.95	40
SRR0805-680K	68	± 10	28	2.52M	9.0	0.440	0.60	0.90	36
SRR0805-820K	82	± 10	28	2.52M	8.5	0.550	0.54	0.74	33
SRR0805-101K	100	± 10	45	0.796M	7.5	0.600	0.50	0.70	30
SRR0805-121K	120	± 10	42	0.796M	7.0	0.750	0.45	0.66	27
SRR0805-151K	150	± 10	39	0.796M	6.5	0.90	0.40	0.64	24
SRR0805-181K	180	± 10	41	0.796M	4.8	1.05	0.35	0.62	22
SRR0805-221K	220	± 10	38	0.796M	4.5	1.18	0.30	0.55	20
SRR0805-271K	270	± 10	37	0.796M	4.2	1.40	0.27	0.45	18
SRR0805-331K	330	± 10	36	0.796M	3.8	1.80	0.24	0.38	17
SRR0805-471K	470	± 10	34	0.796M	3.5	2.25	0.20	0.35	14
SRR0805-561K	560	± 10	32	0.796M	3.0	3.00	0.18	0.34	12
SRR0805-681K	680	± 10	32	0.796M	2.8	3.40	0.17	0.32	11
SRR0805-821K	820	± 10	35	0.796M	2.5	4.00	0.16	0.29	10
SRR0805-102K	1000	± 10	35	0.252M	2.2	5.00	0.15	0.24	9

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(µH) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



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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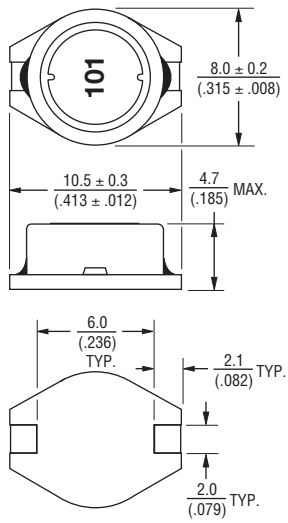
General Specifications

Test Voltage ..... 1 V
Reflow Soldering .. 250 °C, 10 sec. max.
(In compliance with JEDEC, J-STD-020C, Table 4-2)
Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -40 °C to +125 °C
Resistance to Soldering Heat
..... 260 °C, 10 sec. max.
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

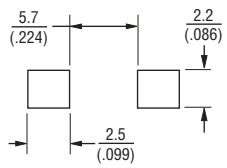
Materials

Core ..... Ferrite DR & RI
Wire ..... Enameled copper
Base ..... LCP E4008
Terminal ..... Cu/Ni/Sn
Rated Current
..... Ind. drop of 10 % typ. at Isat
Temperature Rise
..... 40 °C max. at rated Irms
Packaging ..... 1000 pcs. per reel

Product Dimensions

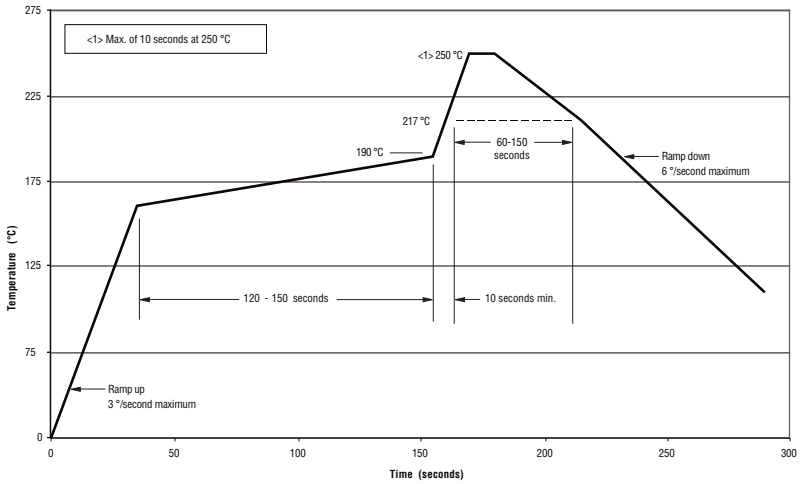


Recommended Layout

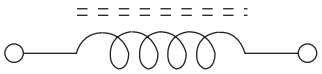


DIMENSIONS: MM / (INCHES)

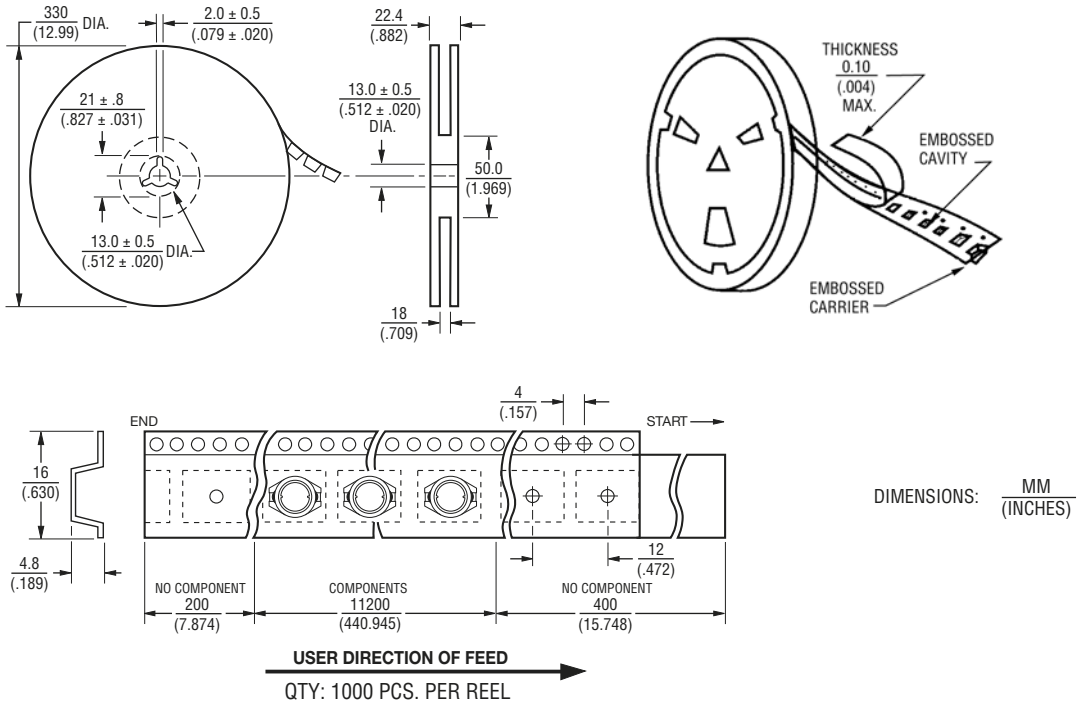
Soldering Profile



Schematic



Packaging Specifications



DIMENSIONS: MM / (INCHES)

REV. 03/18

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