



Features

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

Applications

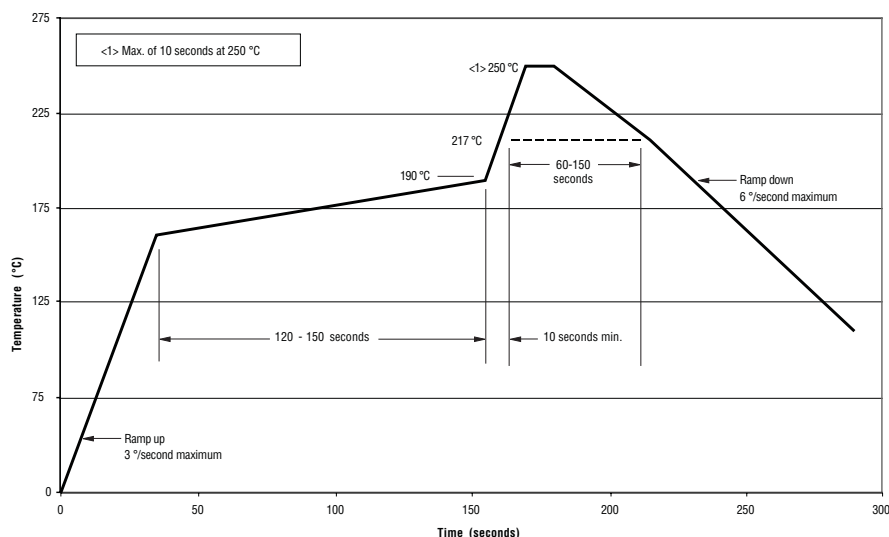
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR0805 Series - Shielded Power Inductor

Electrical Specifications

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

Soldering Profile



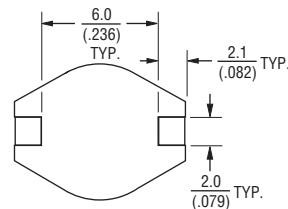
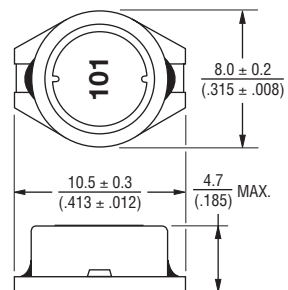
General Specifications

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.

Materials

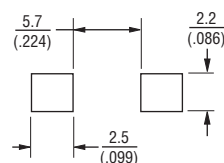
CoreFerrite DR&RI
 WireEnameled copper
 BaseLCP E4008
 Terminal.....Cu/Ni/Sn
 Rated Current
Ind. drop 10 % typ. at Isat
 Temperature Rise
40 °C max. at rated Irms
 Packaging.....1000 pcs. per reel

Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Recommended Layout



BOURNS®

Technical drawing of a 12-hole punch card, showing dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: 330 (12.99) DIA.
- Distance from top edge to center line: 2.0 ± 0.5 (.079 $\pm$.020)
- Distance from center line to hole center: $21 \pm .8$ (.827 $\pm$.031)
- Hole diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.

Side View Dimensions:

- Overall thickness: 22.4 (.882)
- Distance from top edge to hole center: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Hole depth: 50.0 (1.969)
- Distance from bottom edge to hole center: 18 (.709)

Detail View Dimensions:

- THICKNESS: 0.10 (.004) MAX.
- EMBOSS CAVITY
- EMBOSS CARRIER

Front View Dimensions:

- Overall length: 12 (0.472)
- Distance from END to first hole center: 4 (.157)
- Distance between hole centers: 12 (0.472)
- Distance from last hole center to START: 12 (0.472)
- Distance from END to first hole center: 4.8 (.189)
- Distance from first hole center to last hole center: 11200 (440.945)
- Distance from last hole center to START: 400 (15.748)
- Distance from END to first hole center: NO COMPONENT 200 (7.874)
- Distance from first hole center to last hole center: COMPONENTS 11200 (440.945)
- Distance from last hole center to START: NO COMPONENT 400 (15.748)

USER DIRECTION OF FEED →

QTY: 1000 PCS. PER REEL

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

<u>SRR0805-220YL</u>	<u>SRR0805-151KL</u>	<u>SRR0805-390YL</u>	<u>SRR0805-331KL</u>	<u>SRR0805-181KL</u>	<u>SRR0805-101KL</u>
<u>SRR0805-150ML</u>	<u>SRR0805-2R2ML</u>	<u>SRR0805-221KL</u>	<u>SRR0805-680KL</u>	<u>SRR0805-330YL</u>	<u>SRR0805-102KL</u>
<u>SRR0805-470YL</u>	<u>SRR0805-270YL</u>	<u>SRR0805-100ML</u>	<u>SRR0805-120ML</u>	<u>SRR0805-471KL</u>	<u>SRR0805-121KL</u>
<u>SRR0805-820KL</u>	<u>SRR0805-560KL</u>	<u>SRR0805-8R2ML</u>	<u>SRR0805-821KL</u>	<u>SRR0805-180YL</u>	<u>SRR0805-3R9ML</u>
<u>SRR0805-5R6ML</u>	<u>SRR0805-681KL</u>	<u>SRR0704-151KL</u>	<u>SRR0704-470KL</u>		