



**THE DATASHEET OF  
SRR1208-820YL**





### Features

- Available in E6 series
- Unit height of 8.5 mm
- Current rating up to 7.5 A
- RoHS compliant\*

### Applications

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

## SRR1208 Series - Shielded High Power Inductors

#### Electrical Characteristics

Bourns Part No.	Inductance 1 KHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR1208-2R5ML	2.5	± 20	20	7.96	37	0.011	7.50	10.00
SRR1208-4R5ML	4.5	± 20	24	7.96	30	0.014	6.50	10.00
SRR1208-6R5ML	6.5	± 20	25	7.96	20	0.018	6.00	8.40
SRR1208-100ML	10	± 20	20	2.52	15	0.021	5.00	6.70
SRR1208-120ML	12	± 20	19	2.52	11	0.025	4.80	6.50
SRR1208-150ML	15	± 20	21	2.52	11	0.036	4.00	5.60
SRR1208-180ML	18	± 20	21	2.52	9.0	0.040	3.80	4.00
SRR1208-220ML	22	± 20	23	2.52	7.0	0.043	3.50	4.00
SRR1208-270ML	27	± 20	23	2.52	6.5	0.048	3.00	4.30
SRR1208-330YL	33	± 15	23	2.52	6.5	0.062	2.80	3.80
SRR1208-390YL	39	± 15	25	2.52	6.0	0.076	2.50	3.40
SRR1208-470YL	47	± 15	24	2.52	5.0	0.085	2.20	3.10
SRR1208-560YL	56	± 15	23	2.52	5.0	0.110	2.00	2.80
SRR1208-680YL	68	± 15	20	2.52	5.0	0.135	1.80	2.60
SRR1208-820YL	82	± 15	18	2.52	4.0	0.150	1.60	2.30
SRR1208-101YL	100	± 15	15	0.796	4.0	0.170	1.50	2.10
SRR1208-121YL	120	± 15	15	0.796	3.0	0.190	1.40	2.00
SRR1208-151YL	150	± 15	14	0.796	3.0	0.240	1.30	1.72
SRR1208-181YL	180	± 15	14	0.796	2.5	0.270	1.20	1.70
SRR1208-221KL	220	± 10	13	0.796	2.5	0.380	1.10	1.45
SRR1208-271KL	270	± 10	13	0.796	2.0	0.400	0.95	1.25
SRR1208-331KL	330	± 10	13	0.796	1.8	0.650	0.85	1.12
SRR1208-391KL	390	± 10	14	0.796	1.6	0.670	0.80	1.10
SRR1208-471KL	470	± 10	14	0.796	1.4	0.850	0.70	0.95
SRR1208-561KL	560	± 10	14	0.796	1.4	0.900	0.65	0.90
SRR1208-681KL	680	± 10	13	0.796	1.2	1.00	0.60	0.82
SRR1208-821KL	820	± 10	12	0.796	1.2	1.15	0.55	0.77
SRR1208-102KL	1000	± 10	11	0.252	1.0	1.65	0.50	0.67
SRR1208-122KL	1200	± 10	10	0.252	0.80	2.00	0.40	0.57
SRR1208-152KL	1500	± 10	10	0.252	0.75	2.35	0.36	0.55
SRR1208-182KL	1800	± 10	20	0.252	0.70	3.40	0.46	0.48
SRR1208-222KL	2200	± 10	20	0.252	0.65	4.20	0.40	0.42
SRR1208-272KL	2700	± 10	20	0.252	0.60	5.20	0.35	0.38
SRR1208-332KL	3300	± 10	20	0.252	0.50	6.40	0.32	0.35
SRR1208-392KL	3900	± 10	20	0.252	0.45	7.80	0.30	0.32
SRR1208-472KL	4700	± 10	20	0.252	0.42	9.60	0.28	0.30
SRR1208-562KL	5600	± 10	18	0.252	0.40	12.0	0.25	0.28
SRR1208-682KL	6800	± 10	18	0.252	0.38	15.2	0.22	0.25
SRR1208-822KL	8200	± 10	16	0.252	0.35	17.0	0.20	0.22
SRR1208-103KL	10000	± 10	24	0.0796	0.30	19.2	0.18	0.20

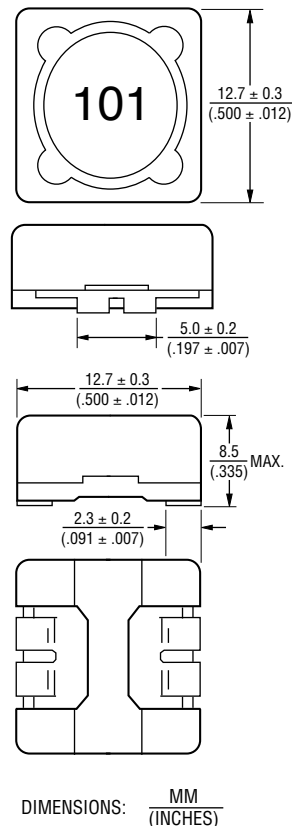
#### General Specifications

Test Voltage ..... 1 V  
 Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ..... -40 °C to +125 °C  
 Resistance to Soldering Heat ..... 260 °C for 5 sec.  
 Rated Current ..... Ind. drop of 10 % typ. at Isat  
 Temperature Rise ..... 40 °C max. at rated Irms

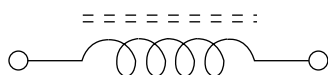
#### Materials

Core ..... Ferrite DR & RI core  
 Wire ..... Enameled copper  
 Base ..... LCP E4008  
 Terminal ..... Cu/Ni/Sn  
 Packaging ..... 400 pcs. per reel

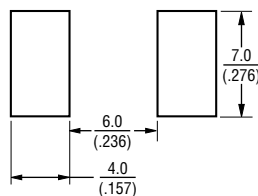
#### Product Dimensions



#### Schematic



#### Recommended Layout



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

# SRR1208 Series - Shielded High Power Inductors

**BOURNS®**

## Packaging Specifications



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

**BOURNS®**

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REV. 01/17

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