

Features

- Available in E6 series, E12 series optional
- High inductance up to 15 mH
- High current up to 5.6 A
- Gull wing leads
- RoHS compliant*

Applications

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

SRR0908 Series - SMD Shielded Power Inductors

Electrical Specifications

	Inductance 1 KHz		Q	Test Freg.	SRF Min.	RDC Max.	I rms Max.	I sat Typ.	**K-
Bourns Part No.	μH	Tol. %	Ref.	(MHz)	(MHz)	(Ω)	(A)	(A)	Factor
SRR0908-1R5ML	1.5	±20	20	7.96	65.0	0.014	5.60	10.00	114
SRR0908-2R7ML	2.7	±20	20	7.96	50.0	0.019	4.80	7.70	84
SRR0908-3R9ML	3.9	±20	20	7.96	35.0	0.021	4.40	6.60	74
SRR0908-5R6ML	5.6	±20	18	7.96	25.0	0.027	3.80	5.50	60
SRR0908-7R5ML	7.5	±20	18	7.96	15.0	0.032	3.40	4.60	50
SRR0908-100ML	10	±20	33	2.52	11.0	0.040	3.00	4.10	43
SRR0908-120ML	12	±20	40	2.52	11.0	0.050	2.50	4.00	41
SRR0908-150ML	15	±20	45	2.52	8.50	0.065	2.20	3.90	36
SRR0908-180ML	18	±20	40	2.52	8.50	0.075	2.00	3.80	34
SRR0908-220ML	22	±20	35	2.52	6.00	0.080	1.90	3.30	31
SRR0908-270ML	27	±20	45	2.52	6.00	0.090	1.80	2.90	27
SRR0908-330ML	33	±20	40	2.52	5.00	0.10	1.70	2.70	25
SRR0908-390ML	39	±20	45	2.52	5.00	0.135	1.50	2.40	23
SRR0908-470ML	47	±20	40	2.52	4.00	0.15	1.40	2.30	21
SRR0908-560ML	56	±20	35	2.52	3.00	0.165	1.35	2.10	19
SRR0908-680ML	68	±20	30	2.52	2.50	0.184	1.25	1.90	17
SRR0908-820ML	82	±20	30	2.52	2.40	0.26	1.05	1.90	16
SRR0908-101YL	100	±15	40	0.796	6.00	0.28	1.00	1.30	14
SRR0908-121YL	120	±15	42	0.796	5.70	0.34	0.90	1.10	13
SRR0908-151YL	150	±15	45	0.796	4.60	0.45	0.80	1.00	11
SRR0908-181YL	180	±15	35	0.796	4.20	0.50	0.70	1.00	10
SRR0908-221YL	220	±15	35	0.796	3.80	0.60	0.65	0.95	10
SRR0908-271YL	270	±15	30	0.796	3.40	0.70	0.60	0.75	8
SRR0908-331YL	330	±15	30	0.796	3.00	0.80	0.55	0.70	8
SRR0908-391YL	390	±15	33	0.796	2.60	1.00	0.50	0.65	7
SRR0908-471YL	470	±15	30	0.796	2.30	1.15	0.45	0.62	6
SRR0908-561YL	560	±15	35	0.796	2.20	1.50	0.38	0.55	6
SRR0908-681YL	680	±15	30	0.796	2.00	1.70	0.35	0.50	5
SRR0908-821YL	820	±15	35	0.796	1.90	2.20	0.32	0.45	5
SRR0908-102YL	1000	±15	85	0.252	1.90	2.20	0.32	0.45	4
SRR0908-152YL	1500	±15	120	0.252	1.30	4.00	0.25	0.35	4
SRR0908-222YL	2200	±15	95	0.252	1.00	5.00	0.20	0.29	3
SRR0908-332YL	3300	±15	95	0.252	0.90	8.00	0.15	0.24	2
SRR0908-472YL	4700	±15	90	0.252	0.80	12.00	0.12	0.19	2
SRR0908-682YL	6800	±15	90	0.252	0.60	16.50	0.10	0.16	2
SRR0908-822YL	8200	±15	85	0.252	0.50	24.00	0.10	0.14	2
SRR0908-103YL	10000	±15	110	0.0796	0.50	26.00	0.09	0.13	1
SRR0908-153YL	15000	±15	130	0.0796	0.40	40.00	0.08	0.12	1

Multiple windings possible (up to four windings).

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

14.7

(.578)

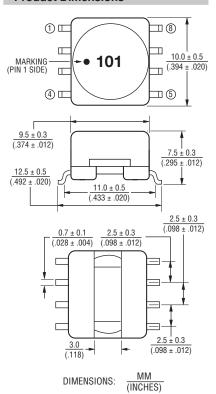


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

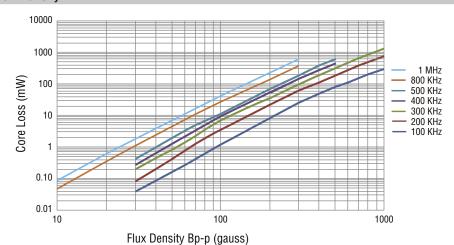
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Core	Ferrite DR & RI
Wire	Enameled copper
Base	LCP
Terminal	Cu/Ni/Sn
Adhesive	Epoxy resin
Rated Current	
Ind. dr	op of 10 % typ. at Isat
Temperature Rise	
40	°C max. at rated Irms
Packaging	400 pcs. per reel

Product Dimensions



Core Loss vs. Flux Density

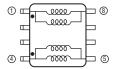


Electrical Schematics

SRR0908-101Y to -153Y



SRR0908-1R5M to -820M



TOP VIEW (Typical Layout)

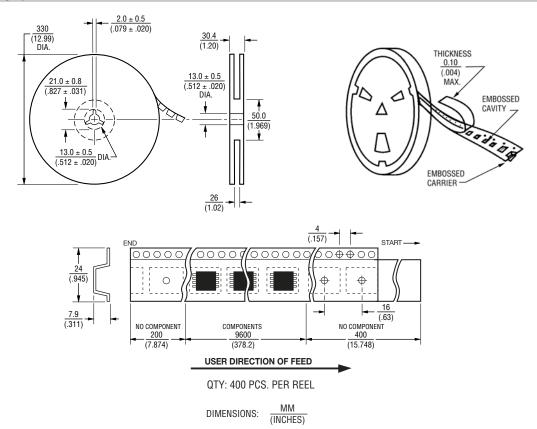
Termination of each individual winding may be either Pin 1, 2, 3, or 4.

Termination of opposite end of each individual winding may be either Pin 5, 6, 7, or 8

Windings will not be terminated to the same pin.

See "Recommended Layout" for SRR0908-1R5M to 820M.

Packaging Specifications



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 SRR0908-103YL
 SRR0908-680ML
 SRR0908-330ML
 SRR0908-682YL
 SRR0908-3R9ML
 SRR0908-101YL

 SRR0908-331YL
 SRR0908-102YL
 SRR0908-100ML
 SRR0908-5R6ML
 SRR0908-332YL
 SRR0908-180ML

 SRR0908-1R5ML
 SRR0908-470ML
 SRR0908-152Y
 SRR0908-103Y
 SRR0908-561Y
 SRR0908-1R5M
 SRR0908

 822Y
 SRR0908-472Y
 SRR0908-7R5M
 SRR0908-2R7M
 SRR0908-221Y
 SRR0908-680M
 SRR0908-153YL

 SRR0908-222YL
 SRR0908-227HL
 SRR0908-560ML
 SRR0908-220ML
 SRR0908-151YL
 SRR0908-150ML

 SRR0908-820ML
 SRR0908-221YL
 SRR0908-822YL
 SRR0908-152YL
 SRR0908-561YL
 SRR0908-7R5ML

 SRR0908-472YL
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 SRR0908-471Y
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 SRR0908-3R9M
 SRR0908-681YL
 SRR0908-120ML
 SRR0908-391YL
 SRR0908-121YL
 SRR0908-390ML

 SRR0908-181YL
 SRR0908-270ML
 SRR0908-271YL
 SRR0908-271YL