

Features

- Available in E12 values
- Height of 4.5 mm maximum
- Current rating to 9.3 amps
- RoHS compliant*

Applications

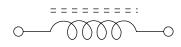
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

SRR1240 Series - Shielded SMD Power Inductors

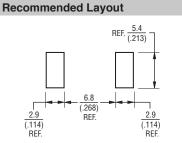
Electrical Specifications									
	Inductance 100 KHz			.					
Bourns Part No.	(μH)	Tol. %	Q Typ.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	l rms Max. (A)	I sat Typ. (A)	**K- Factor
SRR1240-1R0Y	1.0	± 30	10	7.96	85	7.0	9.30	9.20	160
SRR1240-1R5Y	1.5	± 30	16	7.96	80	9.5	9.20	9.00	131
SRR1240-2R4Y	2.4	± 30	10	7.96	54	11.5	8.00	7.80	111
SRR1240-3R3Y	3.3	± 30	14	7.96	43	15.0	6.80	6.50	96
SRR1240-3R9Y	3.9	± 30	14	7.96	39	15.0	6.35	6.20	96
SRR1240-4R7M	4.7	± 20	16	7.96	33	18.0	6.00	5.60	85
SRR1240-5R6M	5.6	± 20	14	7.96	35	20.0	5.40	5.10	76
SRR1240-6R8M	6.8	± 20	14	7.96	34	23.0	5.20	4.70	69
SRR1240-8R2M	8.2	± 20	10	7.96	32	27.0	4.50	4.30	63
SRR1240-100M	10.0	± 20	17	2.52	27	32.0	4.00	4.00	58
SRR1240-120M	12.0	± 20	16	2.52	25	38.0	3.80	3.60	50
SRR1240-150M	15.0	± 20	16	2.52	22	47.0	3.50	3.20	47
SRR1240-180M	18.0	± 20	14	2.52	20	55.0	3.20	3.00	41
SRR1240-220M	22.0	± 20	18	2.52	16	67.5	3.00	2.60	37
SRR1240-270M	27.0	± 20	16	2.52	15.5	85.0	2.55	2.35	34
SRR1240-330M	33.0	± 20	19	2.52	15	97.0	2.30	2.10	31
SRR1240-390M	39.0	± 20	14	2.52	14	120.0	2.15	2.00	28
SRR1240-470M	47.0	± 20	19	2.52	13	135.0	2.00	1.80	26
SRR1240-560M	56.0	± 20	16	2.52	12	170.0	1.80	1.65	24
SRR1240-680M	68.0	± 20	19	2.52	11	200.0	1.50	1.50	22
SRR1240-820M	82.0	± 20	16	2.52	10	250.0	1.35	1.35	20
SRR1240-101M	100.0	± 20	14	0.796	8	300.0	1.25	1.20	18
SRR1240-121K	120.0	± 10	12	0.796	7.8	370.0	1.20	1.15	16
SRR1240-151K	150.0	± 10	12	0.796	7.5	440.0	1.10	1.05	14
SRR1240-181K	180.0	± 10	12	0.796	7.0	550.0	0.98	0.95	13
SRR1240-221K	220.0	± 10	12	0.796	6.6	660.0	0.92	0.90	12
SRR1240-271K	270.0	± 10	10	0.796	6.0	780.0	0.80	0.80	11
SRR1240-331K	330.0	± 10	12	0.796	5.5	950.0	0.75	0.75	10
SRR1240-391K	390.0	± 10	12	0.796	5.0	1150.0	0.70	0.65	9
SRR1240-471K	470.0	± 10	12	0.796	4.5	1350.0	0.62	0.60	8
SRR1240-561K	560.0	± 10	12	0.796	4.0	1500.0	0.55	0.52	7
SRR1240-681K	680.0	± 10	14	0.796	3.8	2000.0	0.50	0.48	7
SRR1240-821K	820.0	± 10	10	0.796	3.5	2400.0	0.45	0.42	6
SRR1240-102K	1000.0	± 10	16	0.252	2.8	3000.0	0.42	0.40	6

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

Electrical Schematic







General Specifications

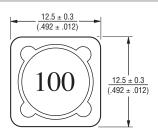
Test Voltage0.1 V Operating Temperature
-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
40 °C to +125 °C
Resistance to Soldering Heat
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

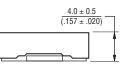
Materials

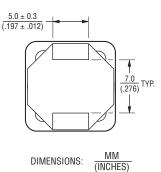
Core	Ferrite DR & RI
Wire	Enameled copper wire 130
Terminal	Cu/Ni/Sn
Rated Currer	nt
	nd, drop of 25 % typ, at Isat

......Ind. drop of 25 % typ. at Isat Temperature Rise

Product Dimensions



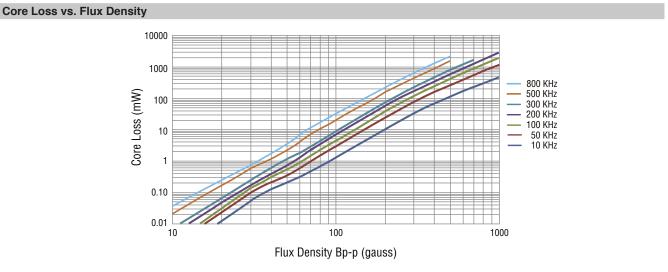




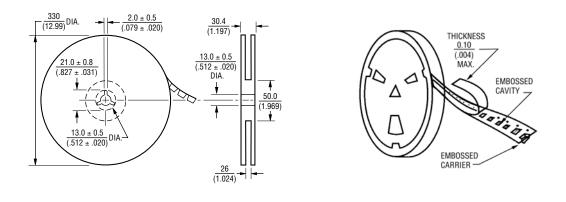
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific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

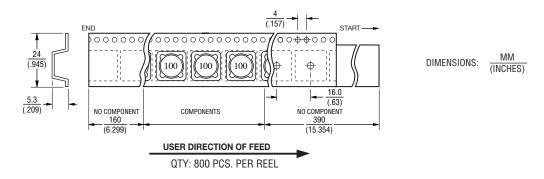
SRR1240 Series - Shielded SMD Power Inductors

BOURNS



Packaging Specifications





REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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