

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

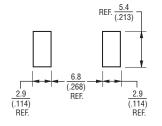
Electrical Specifications									
	Inductance 100 KHz								
	100	КПZ	Q	Test Freq.	SRF Typ.	RDC Max.	I rms Max.	I sat Typ.	**K-
Bourns Part No.	(μH)	Tol. %	Тур.	(MHz)	(MHz)	(mΩ)	(A)	(A)	Factor
SRR1240-1R0Y	1.0	± 30	10	7.96	85	7.0	9.30	9.20	160
SRR1240-1R5Y	1.5	± 30	16	7.96	80	9.5	9.20	9.00	131
SRR1240-2R4Y	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

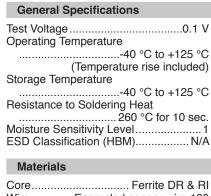
^{**}K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Electrical Schematic



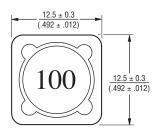
Recommended Layout

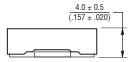


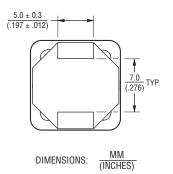


Core	remie DR & Ri
Wire	Enameled copper wire 130
Terminal	Cu/Ni/Sn
Rated Currer	nt
lı	nd. drop of 25 % typ. at Isat
Temperature	Rise
	40 °C max. at rated Irms
Packaging	800 pcs. per reel

Product Dimensions







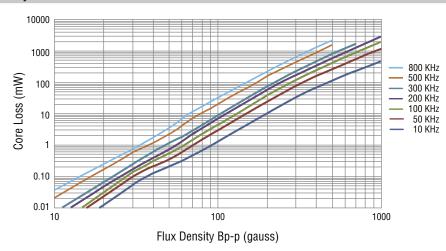


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific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

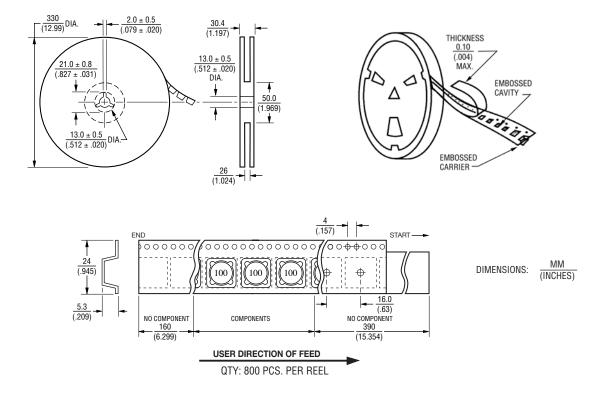
SRR1240 Series - Shielded SMD Power Inductors

BOURNS®

Core Loss vs. Flux Density



Packaging Specifications



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SRR1240-3R3Y SRR1240-150M SRR1240-4R7M SRR1240-680M SRR1240-120M SRR1240-102K SRR1240
121K SRR1240-151K SRR1240-180M SRR1240-181K SRR1240-1R0Y SRR1240-221K SRR1240-270M

SRR1240-271K SRR1240-2R4Y SRR1240-331K SRR1240-390M SRR1240-391K SRR1240-471K SRR1240-560M

SRR1240-561K SRR1240-681K SRR1240-820M SRR1240-821K SRR1240-8R2M SRR1240-150ML SRR1240-471K SRR1240-471K SRR1240-471K SRR1240-471K SRR1240-471K SRR1240-560M SRR1240-100ML SRR1240-150ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-100ML SRR1240-470M SRR1240-147L SRR1240-185Y SRR1240-101M SRR1240-100M SRR1240-688M SRR1240-470M SRR1240-4R7Y SRR1240-5R6M SRR1240-220M SRR1240-3R9Y SRR1240-3R9M