

Features

- Available in E12 values
- Inductance range as low as 1.1 µH
- Current rating to 10.2 amps
- RoHS compliant*

Applications

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

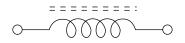
SRR1280 Series - Shielded SMD Power Inductors

Electrical Specifications

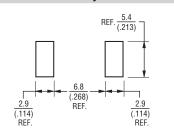
Bourns Part Number	Inductance		Q	Test	SRF	RDC	I rms Max.	l sat	**K-
	(μH)	Tol. (%)	(Typ.)	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	(A)	Typ. (A)	Factor
SRR1280-1R1Y	1.1	± 30	26	7.96	85	6.5	10.20	14.00	94
SRR1280-1R2Y	1.2	± 30	28	7.96	83	18.0	6.60	7.80	90
SRR1280-1R4Y	1.4	± 30	24	7.96	80	9.8	9.80	12.00	90
SRR1280-2R4Y	2.4	± 30	20	7.96	45	10.0	9.20	10.50	62
SRR1280-3R3Y	3.3	± 30	20	7.96	40	12.0	8.80	9.80	54
SRR1280-3R5Y	3.5	± 30	20	7.96	36	12.0	8.80	9.80	56
SRR1280-4R5Y	4.5	± 30	20	7.96	34	13.5	8.50	9.00	48
SRR1280-4R7Y	4.7	± 30	22	7.96	30	15.5	8.20	8.80	48
SRR1280-5R6Y	5.6	± 30	20	7.96	24	16.0	8.00	8.50	44
SRR1280-6R1Y	6.1	± 30	20	7.96	23	18.0	6.60	7.80	43
SRR1280-6R8Y	6.8	± 30	20	7.96	22	18.5	7.60	8.00	39
SRR1280-7R5Y	7.5	± 30	16	7.96	21	17.5	6.40	7.00	37
SRR1280-7R6Y	7.6	± 30	15	7.96	21	20.0	5.90	6.50	35
SRR1280-8R2Y	8.2	± 30	22	2.52	20	20.5	6.20	6.80	35
SRR1280-100M	10.0	± 20	24	2.52	17	19.5	6.00	6.30	32
SRR1280-120M	12.0	± 20	26	2.52	15	28.0	5.60	6.60	30
SRR1280-150M	15.0	± 20	26	2.52	13	28.5	5.20	5.00	28
SRR1280-180M	18.0	± 20	24	2.52	12	35.0	4.80	4.60	23
SRR1280-220M	22.0	± 20	20	2.52	11	38.6	4.30	4.10	21
SRR1280-270M	27.0	± 20	26	2.52	10	52.0	3.90	3.70	20
SRR1280-330M	33.0	± 20	28	2.52	9.5	57.0	3.50	3.30	17
SRR1280-390M	39.0	± 20	24	2.52	8.5	70.0	3.20	3.10	16
SRR1280-470M	47.0	± 20	24	2.52	7.5	80.0	2.90	2.80	15
SRR1280-560M	56.0	± 20	24	2.52	7.0	100.0	2.60	2.50	13
SRR1280-680M	68.0	± 20	20	2.52	6.5	120.0	2.40	2.30	12
SRR1280-820M	82.0	± 20	20	0.796	5.0	130.0	2.30	2.20	11
SRR1280-101M	100.0	± 20	18	0.796	4.5	150.0	2.10	2.00	10
SRR1280-121K	120.0	± 10	16	0.796	4.3	200.0	1.95	1.95	9
SRR1280-151K	150.0	± 10	24	0.796	4.1	270.0	1.85	1.90	8
SRR1280-181K	180.0	± 10	24	0.796	4.0	300.0	1.75	1.88	7
SRR1280-221K	220.0	± 10	24	0.796	3.4	400.0	1.60	1.70	7
SRR1280-271K	270.0	± 10	20	0.796	3.1	450.0	1.20	1.60	6
SRR1280-331K	330.0	± 10	18	0.796	2.9	600.0	1.10	1.40	5
SRR1280-391K	390.0	± 10	20	0.796	2.7	680.0	1.00	1.40	5
SRR1280-471K	470.0	± 10	20	0.796	2.2	880.0	0.90	1.25	5
SRR1280-561K	560.0	± 10	20	0.796	2.0	960.0	0.80	1.15	4
SRR1280-681K	680.0	± 10	26	0.796	1.7	1300.0	0.75	0.97	4
SRR1280-821K	820.0	± 10	20	0.796	1.4	1500.0	0.70	0.94	4
SRR1280-102K	1000.0	± 10	40	0.252	1.3	1700.0	0.68	0.80	3

**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

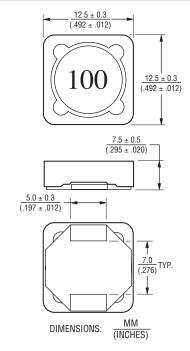


General Specifications

Materials

CoreFerrite DR and RI
Wire Enameled copper wire 130
TerminalCu/Ni/Sn
Packaging400 pcs. per reel

Product Dimensions

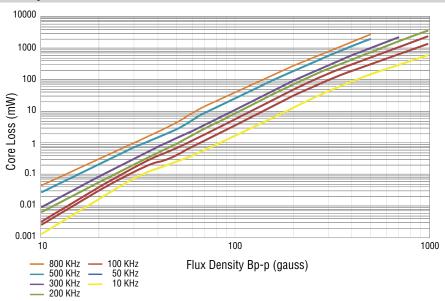


RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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Core Loss vs. Flux Density



Packaging Specifications

