

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.20 to 22 µH
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

- Automotive systems:
 - Driver assistant
 - Information
 - Entertainment
 - Lighting
- DC/DC converters
- Power supplies

SRP1245A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

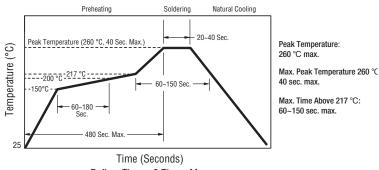
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Min.)	SRF	DCR	DCR (mc)	Irms	Isat
	L (μH)	Tol. (%)	@100 KHz /1 V	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(A)	(A)
SRP1245A-R20M	0.20	20	10	130	0.45	0.55	52	110
SRP1245A-R22M	0.22	20	10	120	0.5	0.7	52	110
SRP1245A-R33M	0.33	20	15	90	0.7	0.9	42	80
SRP1245A-R36M	0.36	20	15	80	0.75	0.95	42	75
SRP1245A-R39M	0.39	20	15	78	0.78	0.95	42	70
SRP1245A-R47M	0.47	20	20	70	0.86	1.1	38	65
SRP1245A-R50M	0.50	20	20	65	0.9	1.3	37	60
SRP1245A-R56M	0.56	20	20	60	1	1.5	36	55
SRP1245A-R68M	0.68	20	20	50	1.4	1.7	34	54
SRP1245A-R82M	0.82	20	20	45	1.7	2.1	31	52
SRP1245A-1R0M	1.0	20	20	40	1.85	2.5	29	50
SRP1245A-1R2M	1.2	20	20	35	2.5	3.0	28	49
SRP1245A-1R5M	1.5	20	20	30	2.8	3.3	27	48
SRP1245A-1R8M	1.8	20	20	27	4	4.9	21	40
SRP1245A-2R2M	2.2	20	20	24	4.2	5.5	20	32
SRP1245A-3R3M	3.3	20	20	22	6.8	9.2	15	32
SRP1245A-4R7M	4.7	20	20	15	11.4	15.0	12	27
SRP1245A-5R6M	5.6	20	20	13	12.3	16.5	11.5	22
SRP1245A-6R0M	6.0	20	20	12	13	16.5	11.5	21.5
SRP1245A-6R8M	6.8	20	20	12	14.5	18.5	11	21
SRP1245A-8R2M	8.2	20	20	11	16.8	22.5	9.5	18
SRP1245A-100M	10	20	20	10	21.4	25.5	9	16
SRP1245A-180M	18	20	20	7	40	45.0	7.5	11
SRP1245A-220M	22	20				58	6.5	10

How to Order

Electrical Schematic



Soldering Profile



Reflow Times: 3 Times Max.

- * RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
- **Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. 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.

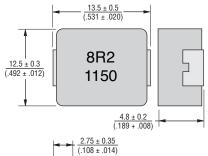
General Specifications

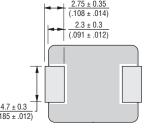
Temperature Rise40 °C at rated Irms Resistance to Soldering Heat

.....+260 °C, 40 sec. max.

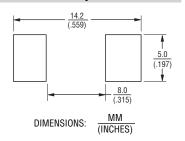
Materials

Product Dimensions





Recommended Layout

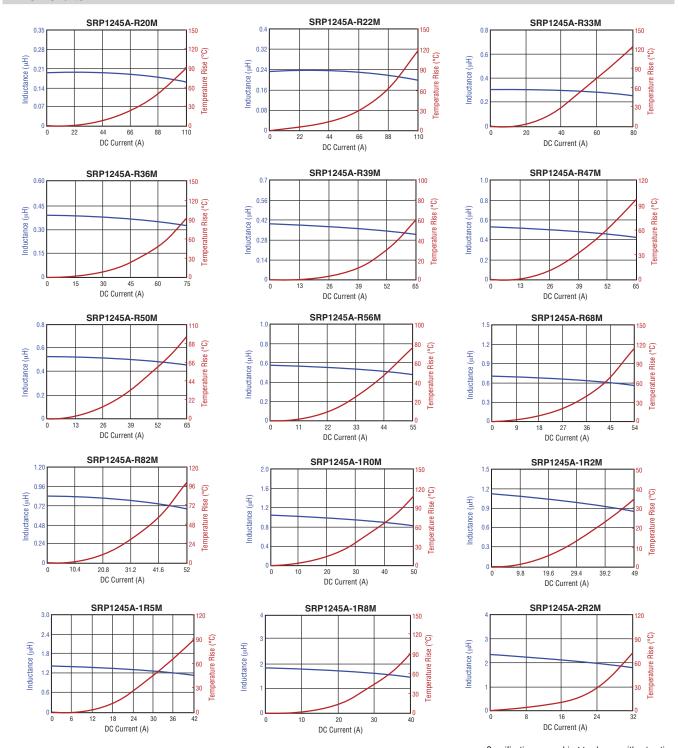


Please consult *Bourns® Model SRP-A Series Visual Inspection Guide* for detailed construction, processing and testing information.

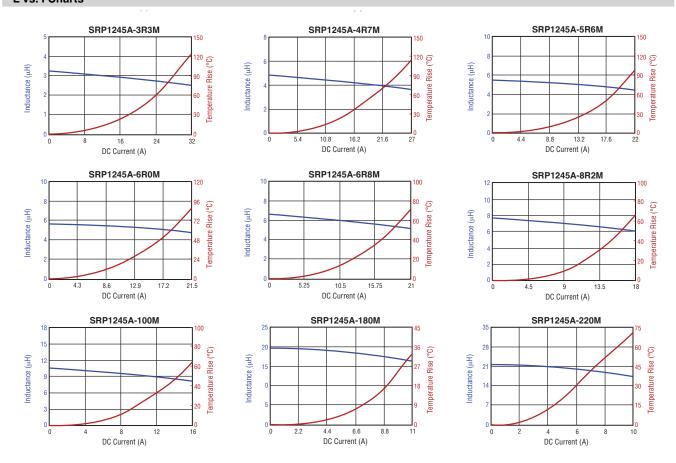
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BOURNS®

L vs. I Charts



L vs. I Charts



Packaging Specifications

