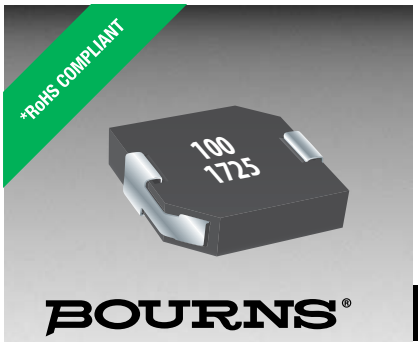


Features

- Shielded construction
- Unit height of 5.9 mm
- Inductance range: 0.22 to 10 μH
- Current up to 45 A
- RoHS compliant*

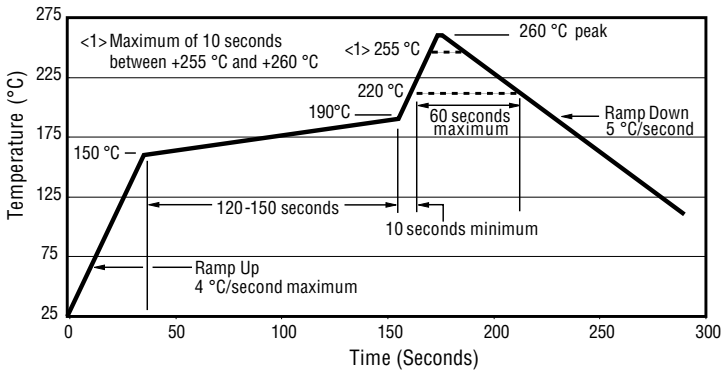
This series is currently available, but not recommended for new designs. The newer SRP1245A series is recommended.

SRP1250 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (μH) ±20 %	I rms (A)	I sat (A)	DCR (mΩ) Max.
SRP1250-R22M	0.22	45	80	1.0
SRP1250-R36M	0.36	41	75	1.1
SRP1250-R47M	0.47	38	65	1.3
SRP1250-R50M	0.50	36	55	1.5
SRP1250-R56M	0.56	36	55	1.5
SRP1250-R68M	0.68	34	54	1.7
SRP1250-R82M	0.82	31	53	2.3
SRP1250-1R0M	1.00	29	50	2.5
SRP1250-1R2M	1.20	27	49	3.3
SRP1250-1R5M	1.50	23	48	4.1
SRP1250-1R8M	1.80	21	40	4.7
SRP1250-2R2M	2.20	20	32	5.5
SRP1250-2R7M	2.70	17	32	7.3
SRP1250-3R3M	3.30	15	32	9.2
SRP1250-4R7M	4.70	12	27	15.0
SRP1250-6R0M	6.00	9.5	14	10.0
SRP1250-6R8M	6.80	11	21	18.5
SRP1250-7R8M	7.80	10	18	20.5
SRP1250-9R0M	9.00	10	18	22.5
SRP1250-100M	10.0	9	16	25.5

Soldering Profile



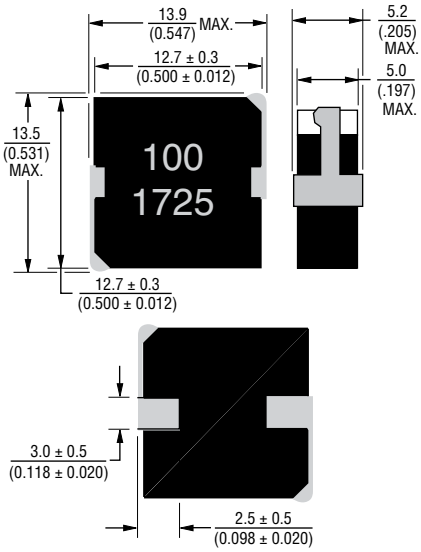
General Specifications

Test Voltage ..... 1 V
Test Frequency ..... 100 KHz
Reflow Soldering .. 230 °C; 50 sec. max.
Operating Temperature
..... -55 °C to +150 °C
(Temperature rise included)
Storage Temperature
..... -55 °C to +150 °C
Resistance to Soldering Heat
..... +260 °C for 10 sec.

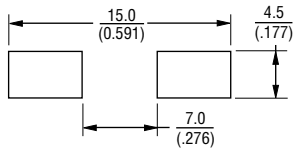
Materials

Core ..... Iron
Wire ..... Enameled copper
Terminal ..... Cu/Sn
Rated Current ..... Ind. drops 20 % at Isat
Temperature Rise ..... 40 °C at rated Irms
Packaging ..... 500 pcs. per 13-inch reel

Product Dimensions

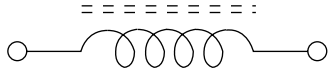


Recommended Layout



DIMENSIONS: MM (INCHES)

Electrical Schematic



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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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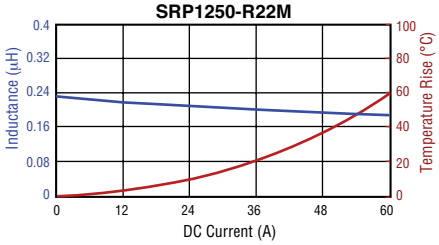
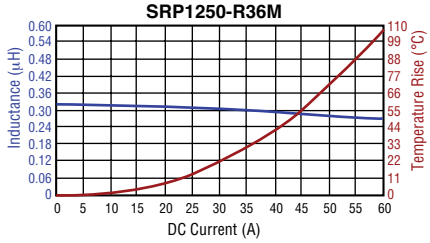
L vs. I Charts

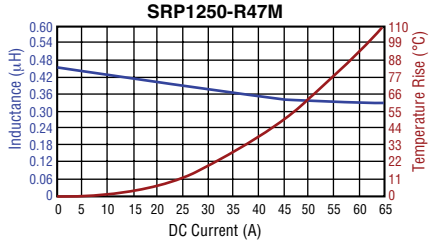
SRP1250-R22M



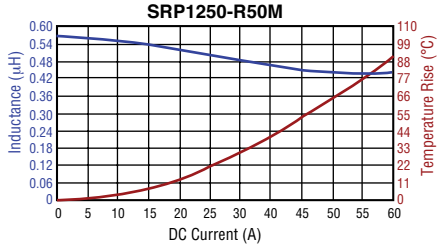
SRP1250-R36M



SRP1250-R47M



SRP1250-R50M



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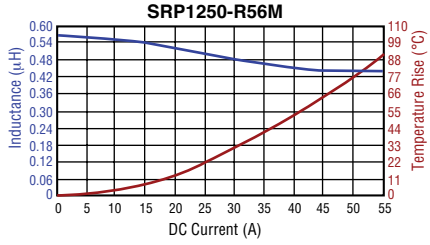
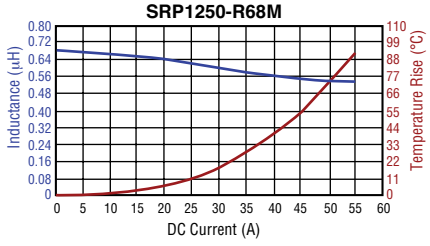
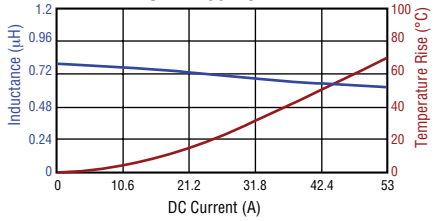


SRP1250-R68M



SRP1250-R82M



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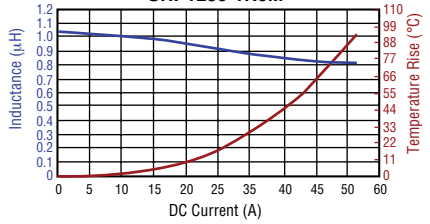

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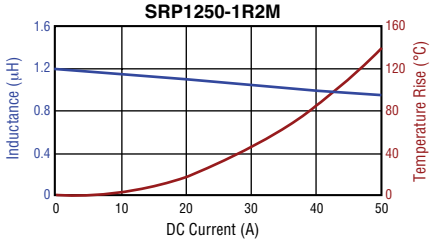

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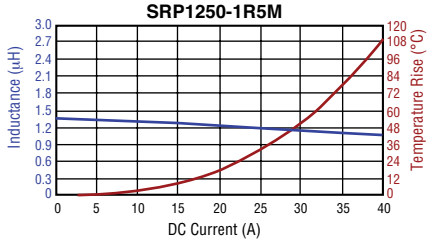

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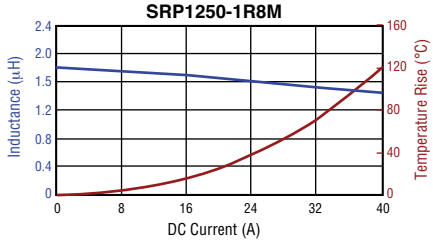

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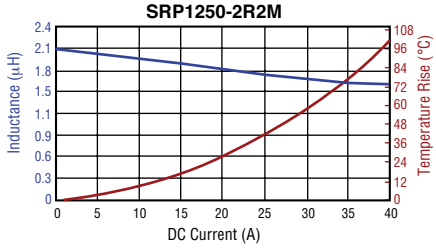

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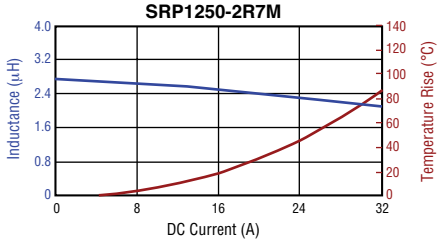

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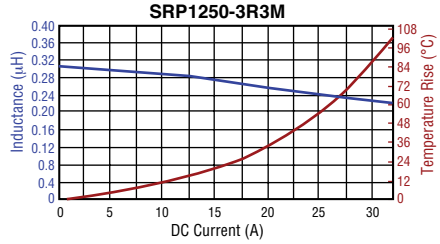

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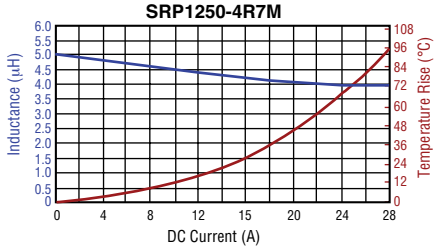
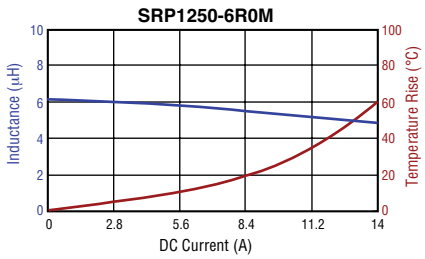
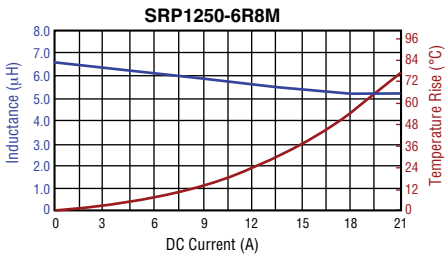
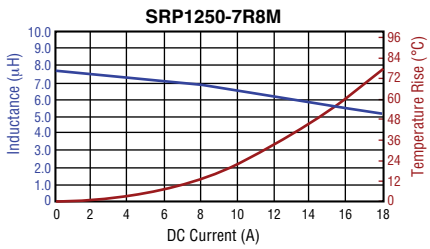
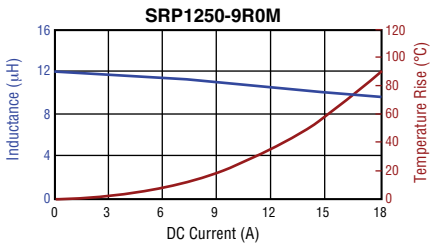


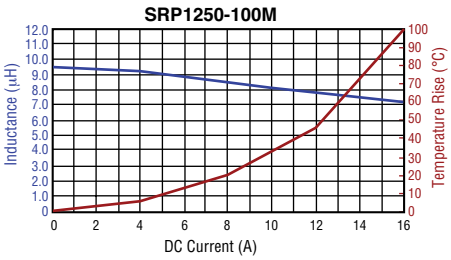
L vs. I Charts



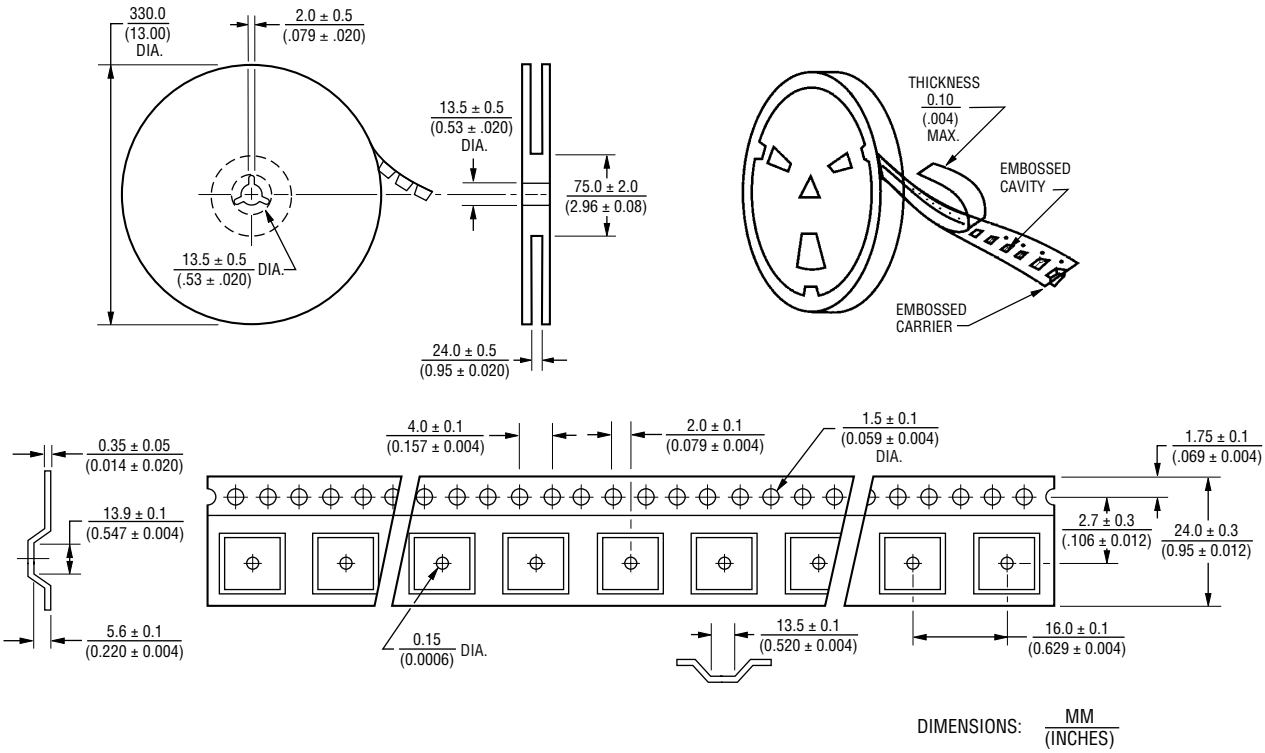








Packaging Specifications



DIMENSIONS: MM / (INCHES)

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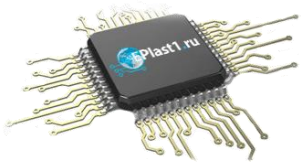
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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