



Features

- Formerly **J. W. Miller®** models
- Shielded construction
- Unit height of 5.9 mm
- Inductance range: 0.22 μ H to 10 μ H
- Current up to 45 A
- RoHS compliant*



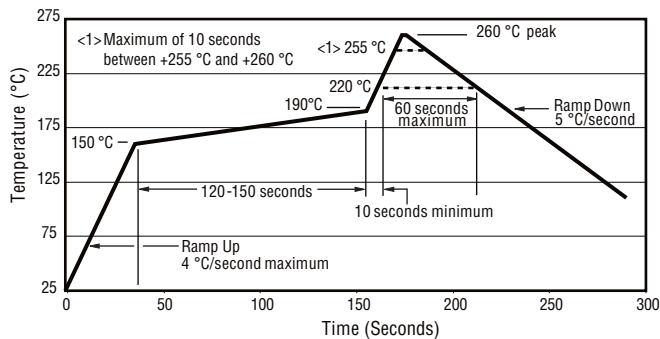
These series are currently available, but not recommended for new designs. The newer [SRP1245A](#) series is recommended.

PM12645S, PM12651S, PM13560S, PM13656S, PM13666S Series - Shielded Power Inductors

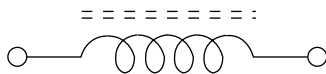
Electrical Specifications

Bourns Part No.	Inductance L (μ H) ± 20 %	I rms (A)	I sat (A)	DCR (m Ω) max.
PM12645S-1R2M-RC	1.20	27	49	3.3
PM12645S-1R8M-RC	1.80	21	40	4.7
PM12645S-2R7M-RC	2.70	17	32	7.3
PM12651S-R50M-RC	0.50	36	55	1.5
PM12651S-4R7M-RC	4.70	12	27	15.0
PM12651S-9R0M-RC	9.00	10	18	22.5
PM13560S-6R0M-RC	6.00	9.5	14	10.0
PM13560S-100M-RC	10.0	9	16	25.5
PM13656S-R22M-RC	0.22	45	80	1.0
PM13656S-R50M-RC	0.50	36	55	1.5
PM13666S-1R0M-RC	1.00	29	50	2.5

Soldering Profile



Electrical Schematic



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

*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

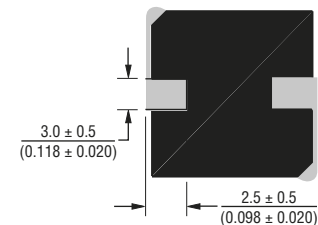
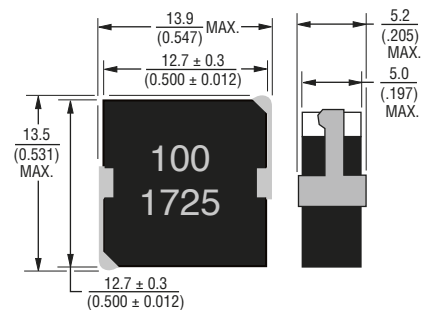
General Specifications

Test Voltage 0.25 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.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

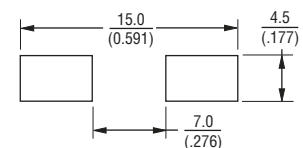
Materials

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

Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

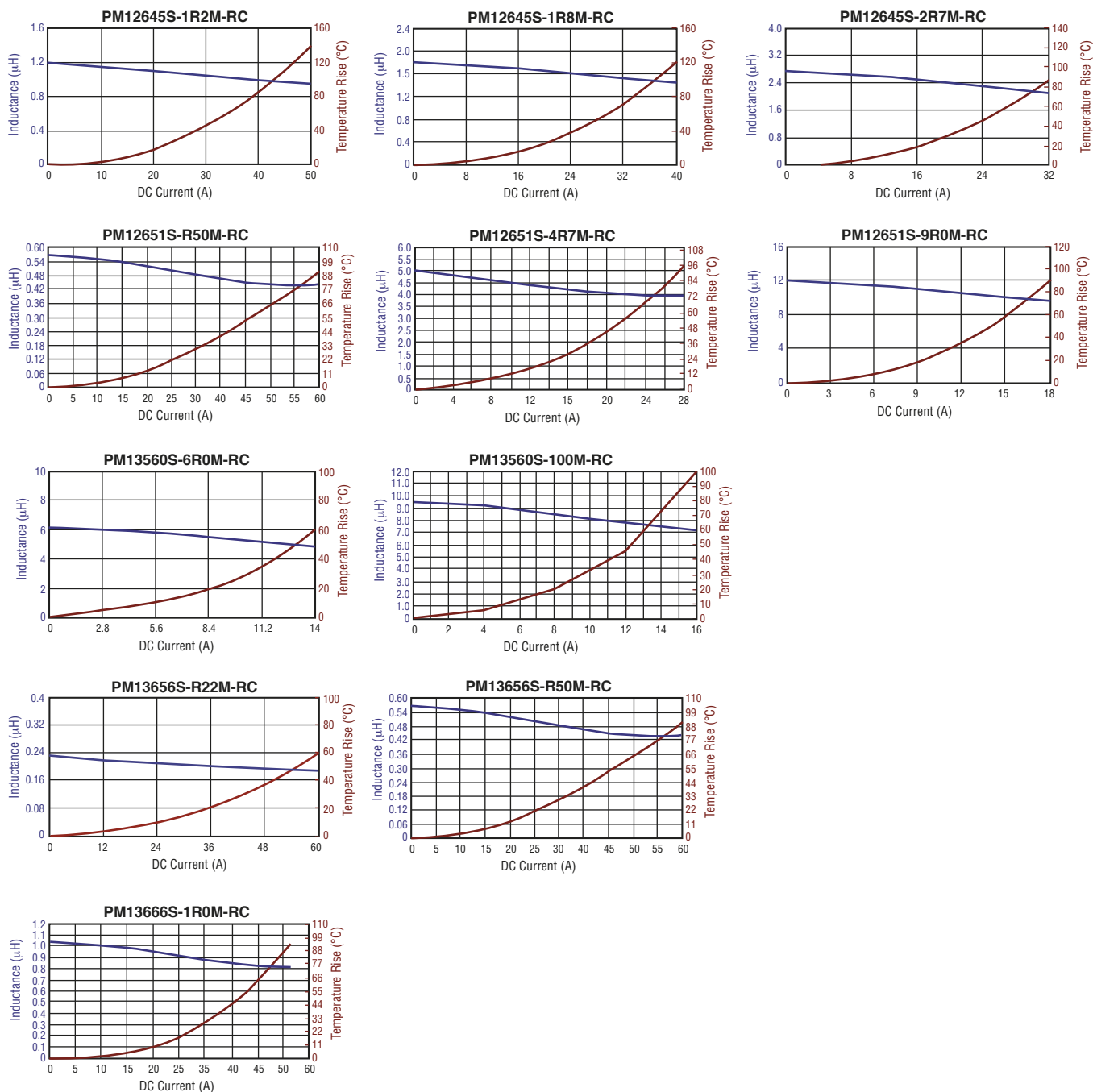
Applications

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

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L vs. I Charts



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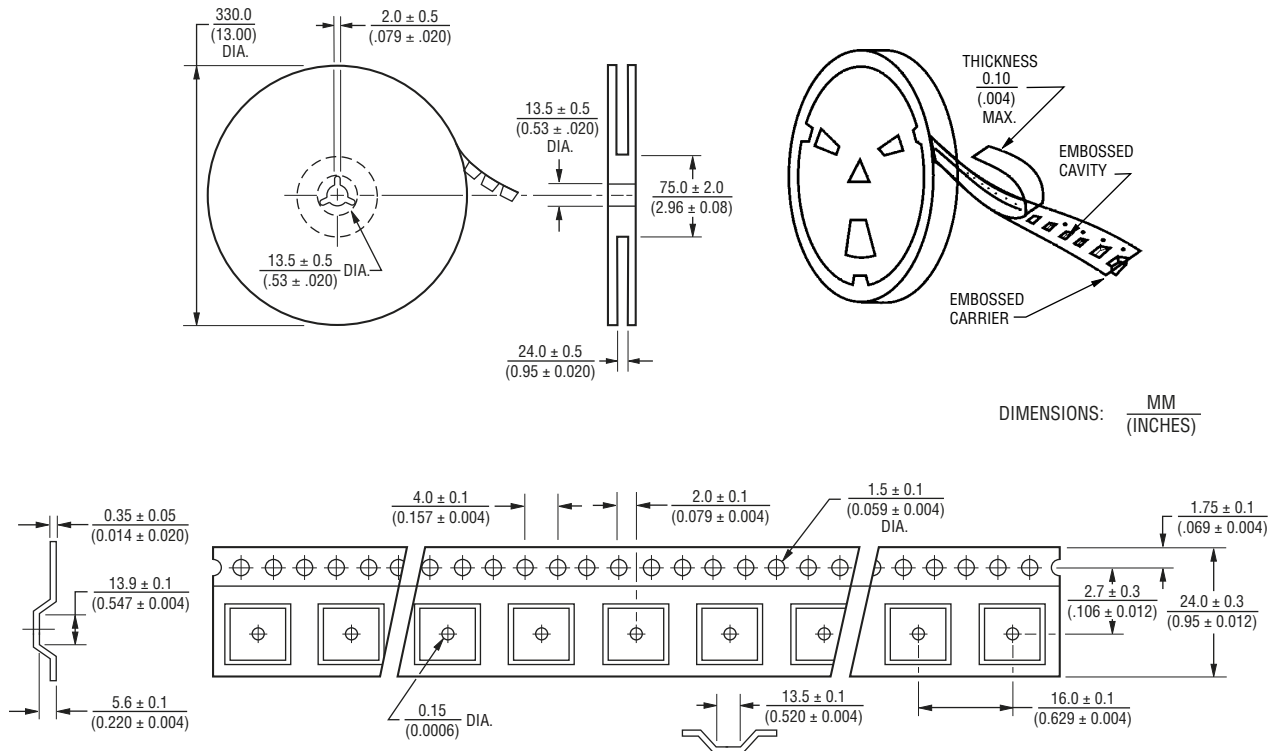
Users should verify actual device performance in their specific applications.

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**PM12645S, PM12651S, PM13560S, PM13656S, PM13666S Series -
Shielded Power Inductors**

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Packaging Specifications



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REV. 03/18

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