



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*

Applications

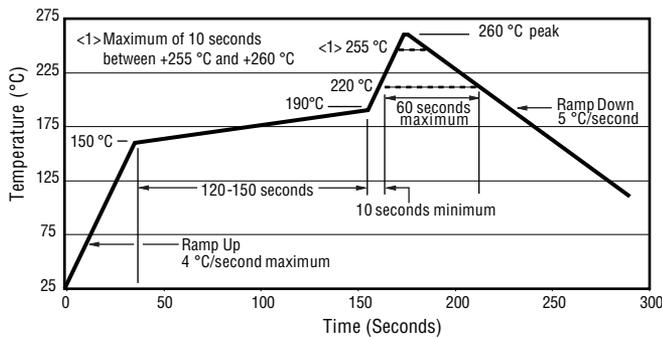
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car audio systems

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

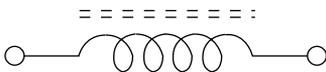
Electrical Specifications

| Bourns Part No. | Inductance L (μ H) $\pm 20\%$ | 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



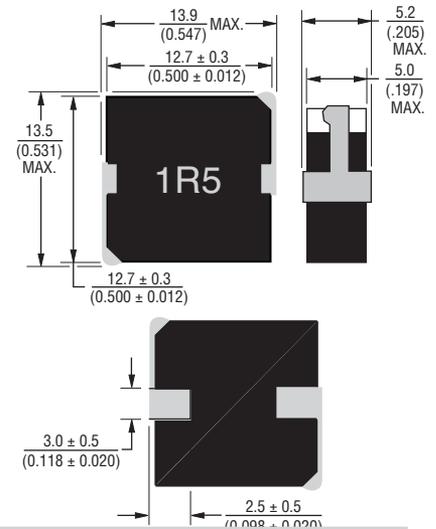
General Specifications

Test Voltage0.25 V
 Test Frequency 100 KHz
 Reflow Soldering230 °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.

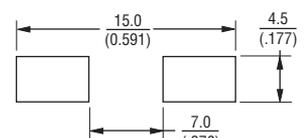
Materials

CoreIron
 WireEnameled copper
 TerminalCu/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



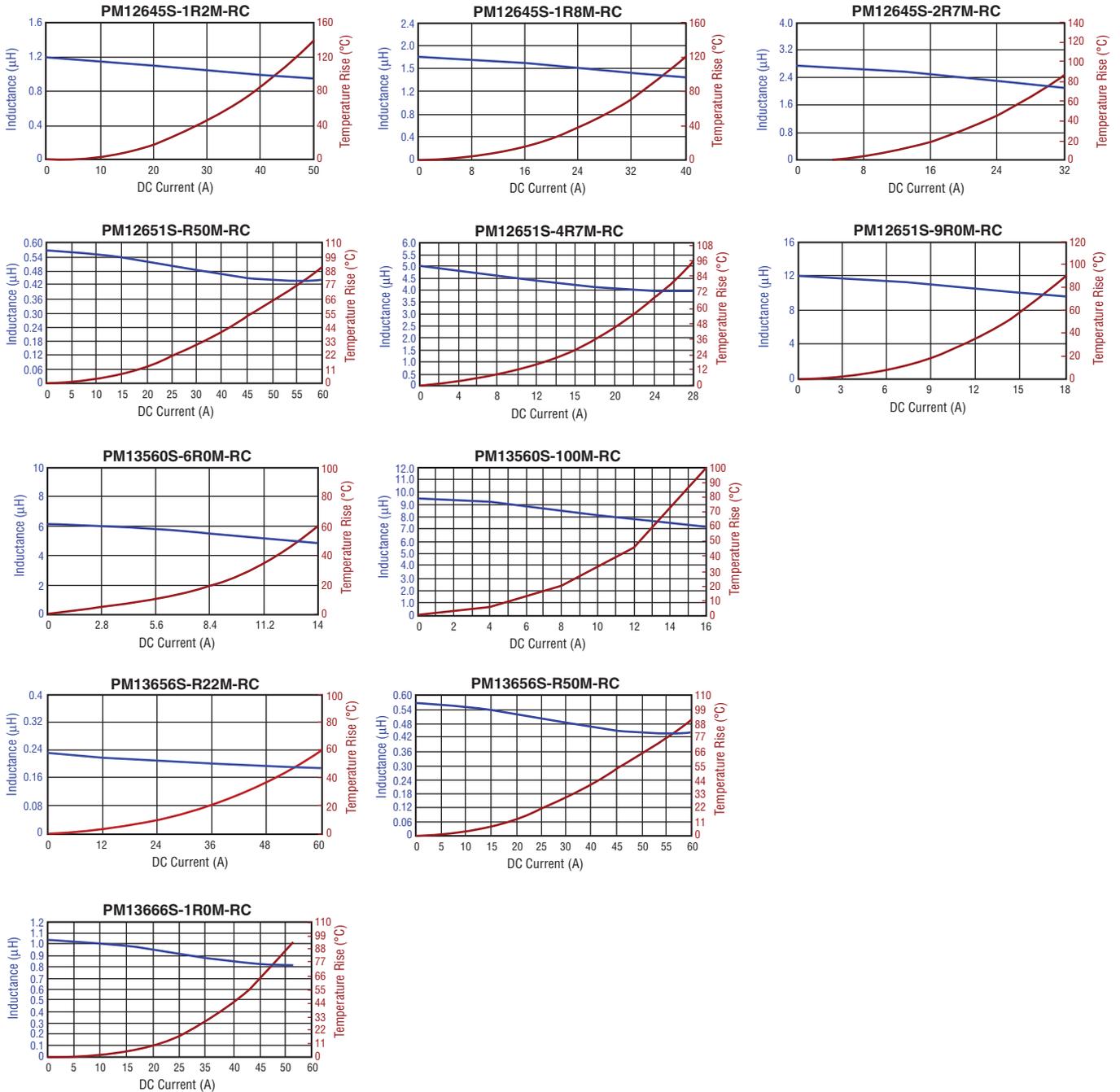
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

*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.

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



L vs. I Charts

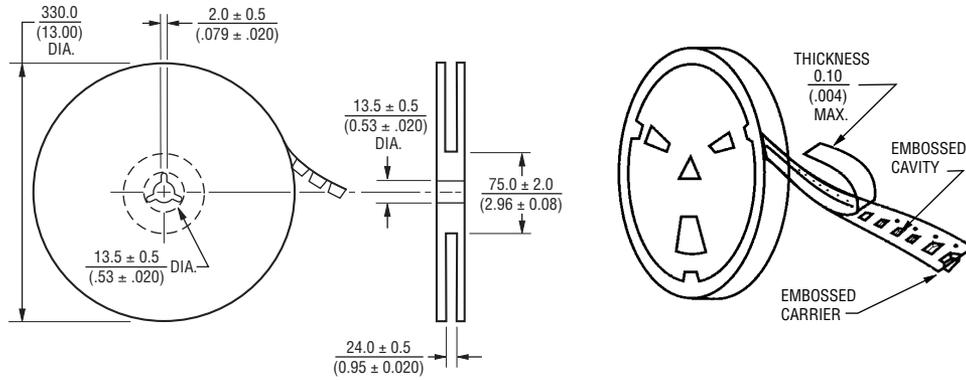


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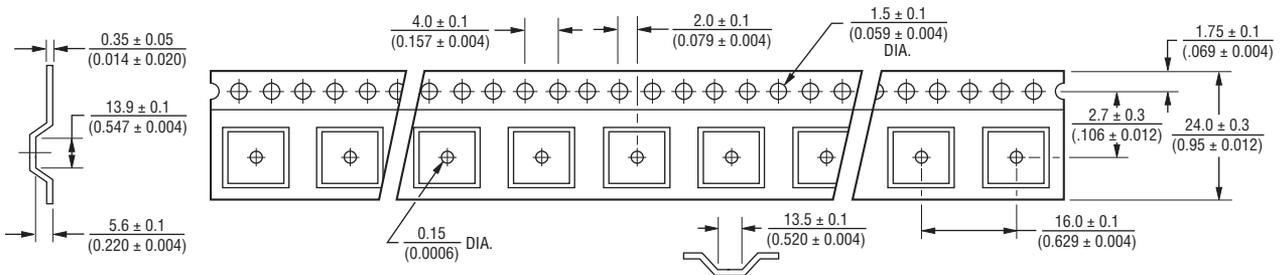
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BOURNS®

Packaging Specifications



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REV. 04/14

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