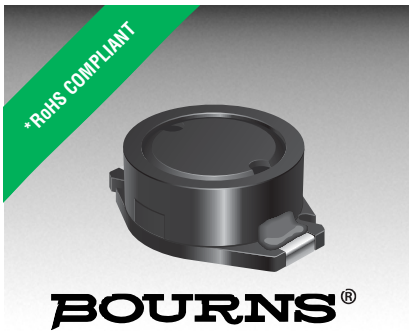




## Features

- Formerly J. W. Miller® model
- Available in E12 series
- Unit height of 3 mm
- Current up to 3 A
- RoHS compliant\*

## Applications

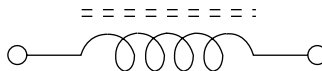
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

# PM1608S Series - Shielded Power Inductor

## Electrical Specifications

| Bourns Part No. | Inductance 100 kHz |        | Q Ref. | Test Frequency (kHz) Q | SRF Nom. (MHz) | RDC Max. (Ω) | IDC Max. (A) |
|-----------------|--------------------|--------|--------|------------------------|----------------|--------------|--------------|
|                 | (μH)               | Tol. % |        |                        |                |              |              |
| PM1608S-1R0M-RC | 1.0                | ± 20   | 30     | 200                    | 250            | 0.040        | 3.00         |
| PM1608S-1R5M-RC | 1.5                | ± 20   | 30     | 200                    | 125            | 0.045        | 2.80         |
| PM1608S-2R2M-RC | 2.2                | ± 20   | 40     | 200                    | 120            | 0.050        | 1.80         |
| PM1608S-3R3M-RC | 3.3                | ± 20   | 40     | 200                    | 120            | 0.055        | 1.60         |
| PM1608S-4R7M-RC | 4.7                | ± 20   | 40     | 200                    | 105            | 0.060        | 1.40         |
| PM1608S-6R8M-RC | 6.8                | ± 20   | 40     | 200                    | 50             | 0.065        | 1.20         |
| PM1608S-100M-RC | 10                 | ± 20   | 40     | 200                    | 38             | 0.075        | 1.00         |
| PM1608S-150M-RC | 15                 | ± 20   | 40     | 100                    | 33             | 0.090        | 0.80         |
| PM1608S-220M-RC | 22                 | ± 20   | 40     | 100                    | 25             | 0.110        | 0.70         |
| PM1608S-330M-RC | 33                 | ± 20   | 40     | 100                    | 20             | 0.190        | 0.60         |
| PM1608S-470M-RC | 47                 | ± 20   | 40     | 100                    | 20             | 0.230        | 0.50         |
| PM1608S-680M-RC | 68                 | ± 20   | 40     | 100                    | 15             | 0.290        | 0.40         |
| PM1608S-101M-RC | 100                | ± 20   | 40     | 100                    | 10             | 0.480        | 0.30         |
| PM1608S-151M-RC | 150                | ± 20   | 40     | 100                    | 9              | 0.590        | 0.26         |
| PM1608S-221M-RC | 220                | ± 20   | 40     | 100                    | 6              | 0.770        | 0.22         |
| PM1608S-331M-RC | 330                | ± 20   | 40     | 100                    | 5              | 1.400        | 0.20         |
| PM1608S-471M-RC | 470                | ± 20   | 40     | 100                    | 4              | 1.800        | 0.19         |
| PM1608S-681M-RC | 680                | ± 20   | 40     | 100                    | 3              | 2.200        | 0.18         |
| PM1608S-102M-RC | 1000               | ± 20   | 40     | 100                    | 2              | 3.400        | 0.15         |
| PM1608S-152M-RC | 1500               | ± 20   | 50     | 100                    | 2              | 4.200        | 0.12         |
| PM1608S-222M-RC | 2200               | ± 20   | 50     | 100                    | 2              | 8.500        | 0.10         |
| PM1608S-332M-RC | 3300               | ± 20   | 50     | 100                    | 1              | 11.000       | 0.08         |
| PM1608S-472M-RC | 4700               | ± 20   | 50     | 100                    | 1              | 13.900       | 0.06         |
| PM1608S-682M-RC | 6800               | ± 20   | 50     | 100                    | 1              | 25.000       | 0.04         |
| PM1608S-103M-RC | 10,000             | ± 20   | 50     | 100                    | 0.8            | 32.800       | 0.02         |

## Electrical Schematic



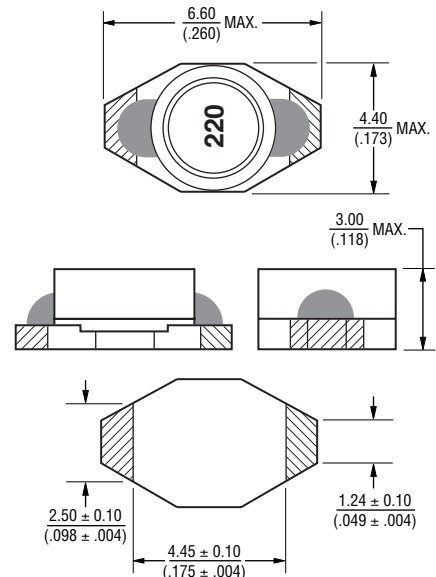
## General Specifications

Test Voltage ..... 0.1 V  
 Reflow soldering .... 250 °C; 10 sec max.  
 (In compliance with JEDEC, J-STD-020C, Table 4-2)  
 Operating Temperature  
 ..... -55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .. -55 °C to +125 °C  
 Resistance to Soldering Heat  
 ..... 250 °C, 10 sec. max.

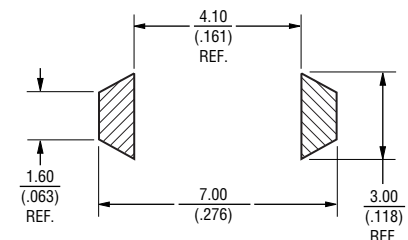
## Materials

Core ..... Ferrite DR & RI core  
 Wire ..... Enameled copper  
 Base ..... Ceramic  
 Terminal ..... Cu/Ni/Au  
 Temperature Rise  
 ..... 30 °C max. at rated I<sub>rms</sub>  
 Packaging ..... 600 pcs. per reel

## Product Dimensions



## Recommended Layout



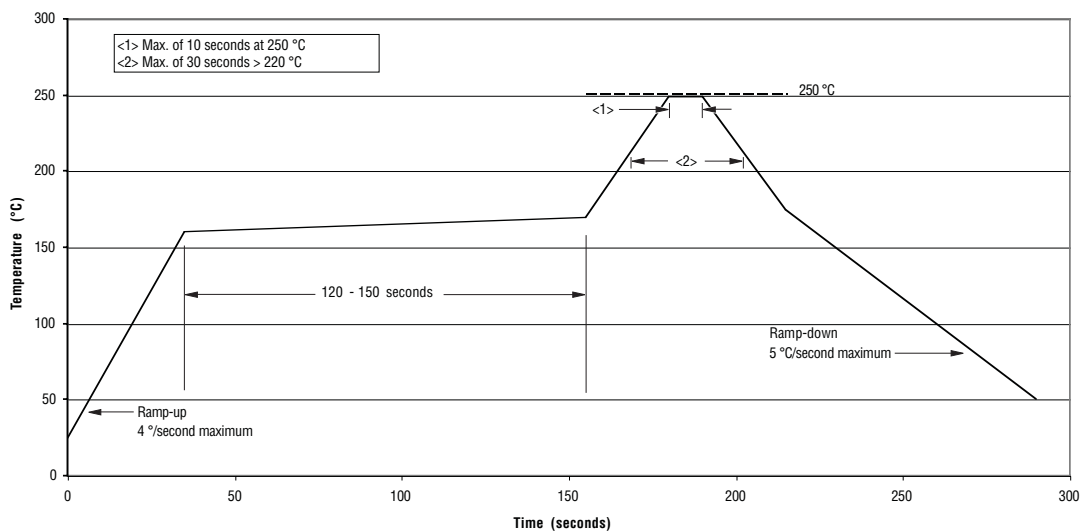
DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

\*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.  
 Customers should verify actual device performance in their specific applications.

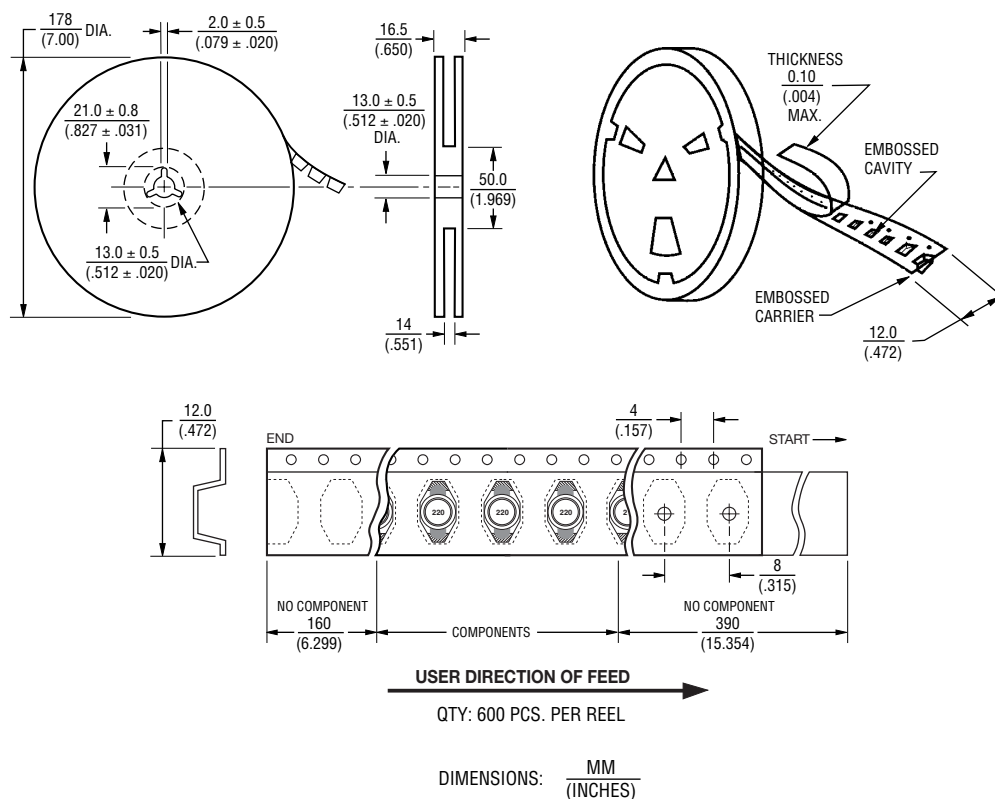
# PM1608S Series - Shielded Power Inductor

**BOURNS®**

## Soldering Profile



## Packaging Specifications



REV. 05/09

Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Bourns:

[PM1608S-470M](#) [PM1608S-680M](#) [PM1608S-221M](#) [PM1608S-1R0M](#) [PM1608S-330M](#) [PM1608S-471M](#) [PM1608S-150M](#) [PM1608S-220M](#) [PM1608S-103M](#) [PM1608S-4R7M](#) [PM1608S-331M](#) [PM1608S-100M](#) [PM1608S-681M](#) [PM1608S-6R8M](#) [PM1608S-101M](#) [PM1608S-222M](#) [PM1608S-472M](#) [PM1608S-152M](#) [PM1608S-2R2M](#) [PM1608S-682M](#) [PM1608S-151M](#) [PM1608S-3R3M](#) [PM1608S-1R5M](#) [PM1608S-102M](#) [PM1608S-332M](#)