



## Features

- Formerly **JW.Miller** model
- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.15  $\mu$ H to 2.5  $\mu$ H
- Current up to 34 A
- RoHS compliant\*

## Applications

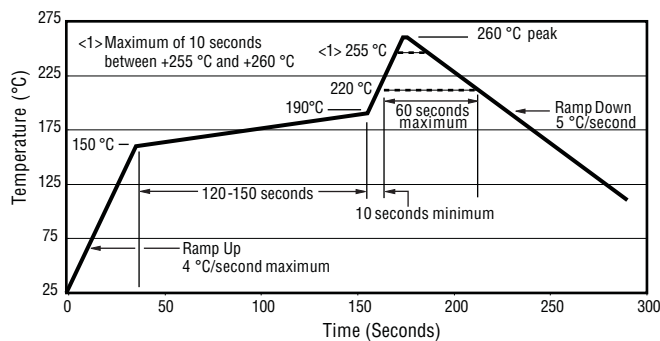
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

# PM1038S Series - Shielded Power Inductors

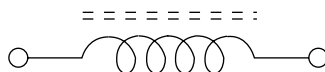
## Electrical Specifications

| Bourns Part No. | Inductance<br>L ( $\mu$ H) | I rms<br>(A) | I sat<br>(A) | DCR<br>(m $\Omega$ ) max. |
|-----------------|----------------------------|--------------|--------------|---------------------------|
| PM1038S-R15M-RC | 0.15                       | 34           | 40           | 1.3                       |
| PM1038S-R39M-RC | 0.39                       | 24           | 32           | 1.4                       |
| PM1038S-R50M-RC | 0.50                       | 23           | 32           | 1.9                       |
| PM1038S-R75M-RC | 0.75                       | 22           | 28           | 2.5                       |
| PM1038S-1R2M-RC | 1.2                        | 18           | 24           | 4.7                       |
| PM1038S-1R7M-RC | 1.7                        | 15           | 18           | 7.5                       |
| PM1038S-2R5M-RC | 2.5                        | 11.5         | 14           | 8.7                       |

## Soldering Profile



## Electrical Schematic



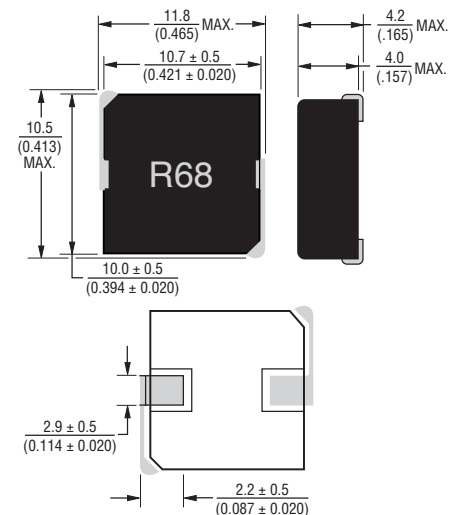
## General Specifications

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.

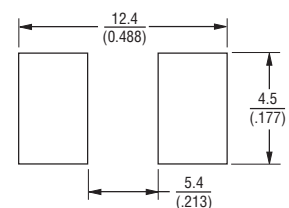
## Materials

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 ..... 900 pcs. per 13-inch reel

## Product Dimensions



## Recommended Layout



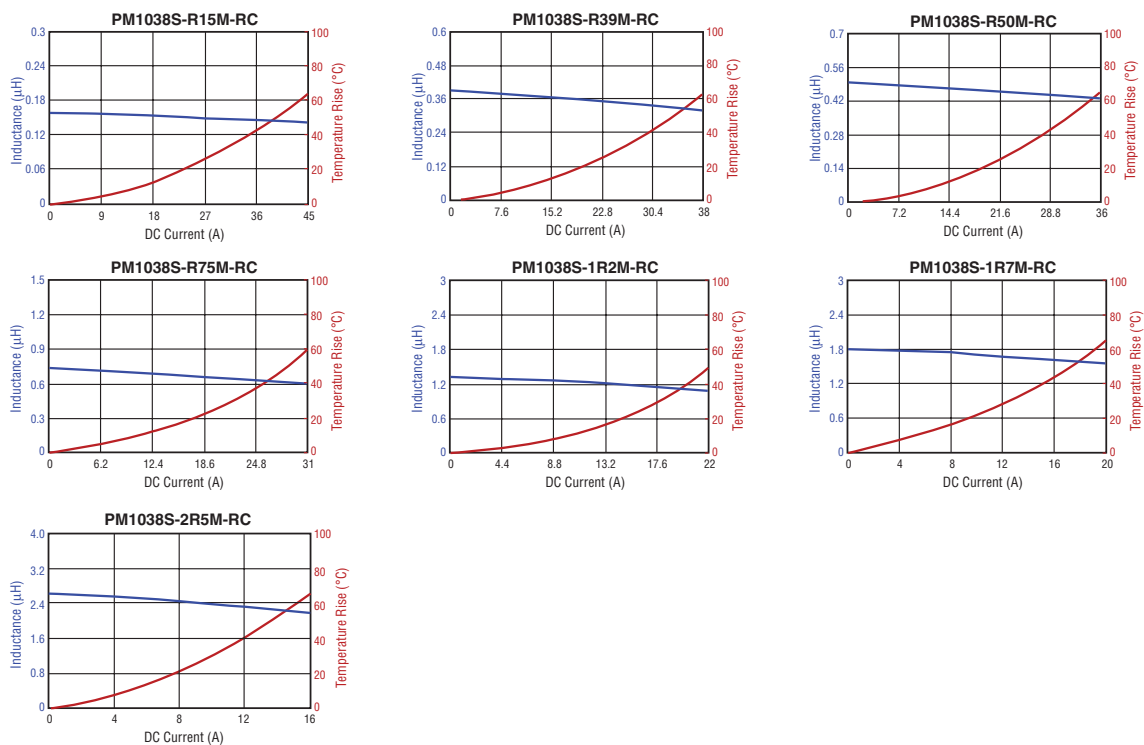
DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications

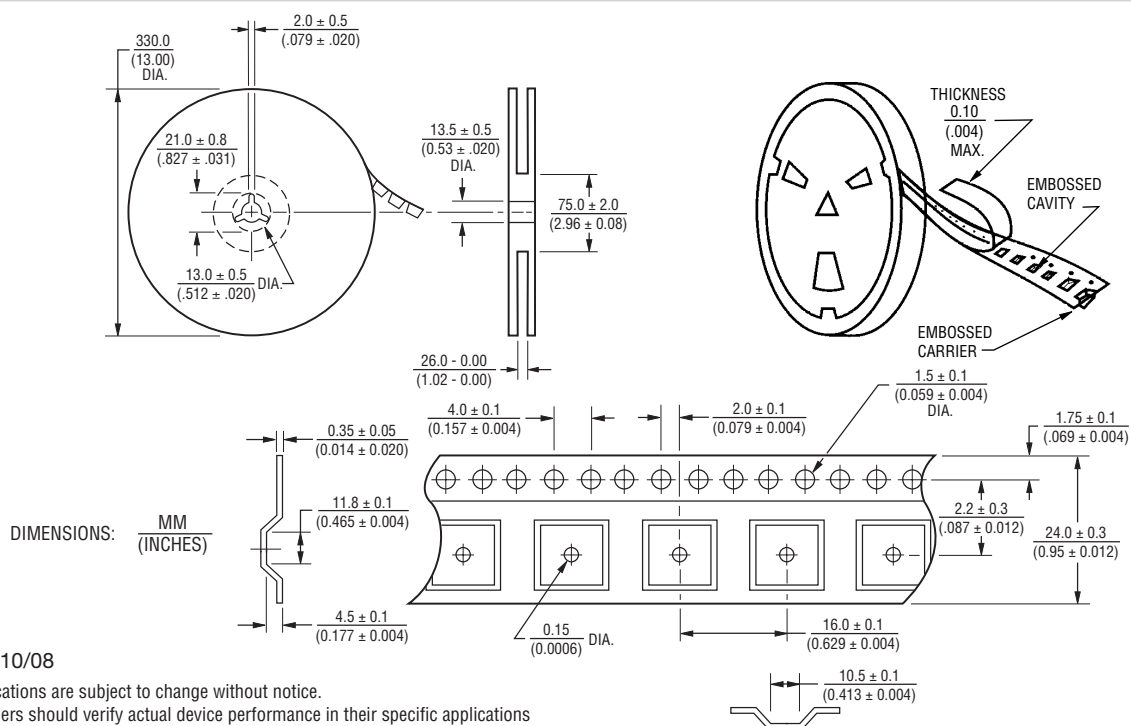
# PM1038S Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



## Packaging Specifications



REV. 10/08

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