



### Features

- Formerly **J. W. 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\*



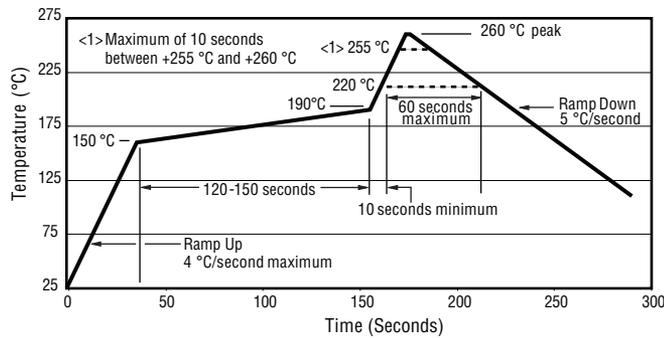
This series is currently available, but not recommended for new designs. Newer Model **SRP1038A** is recommended.

## PM1038S Series - Shielded Power Inductors

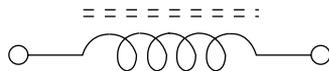
### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H)	I rms (A)	I sat (A)	DCR (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



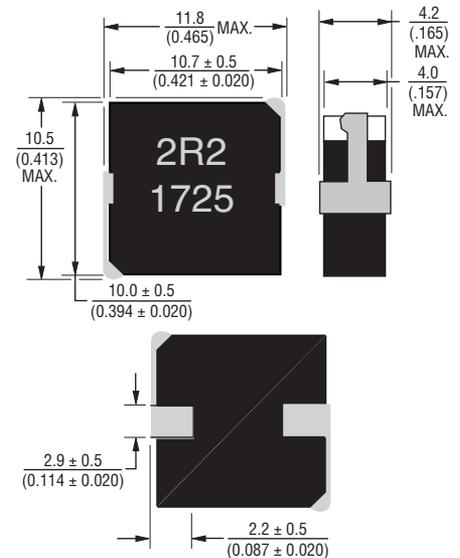
### General Specifications

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

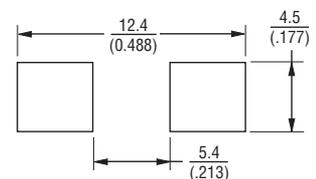
### Materials

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 ..... 800 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.

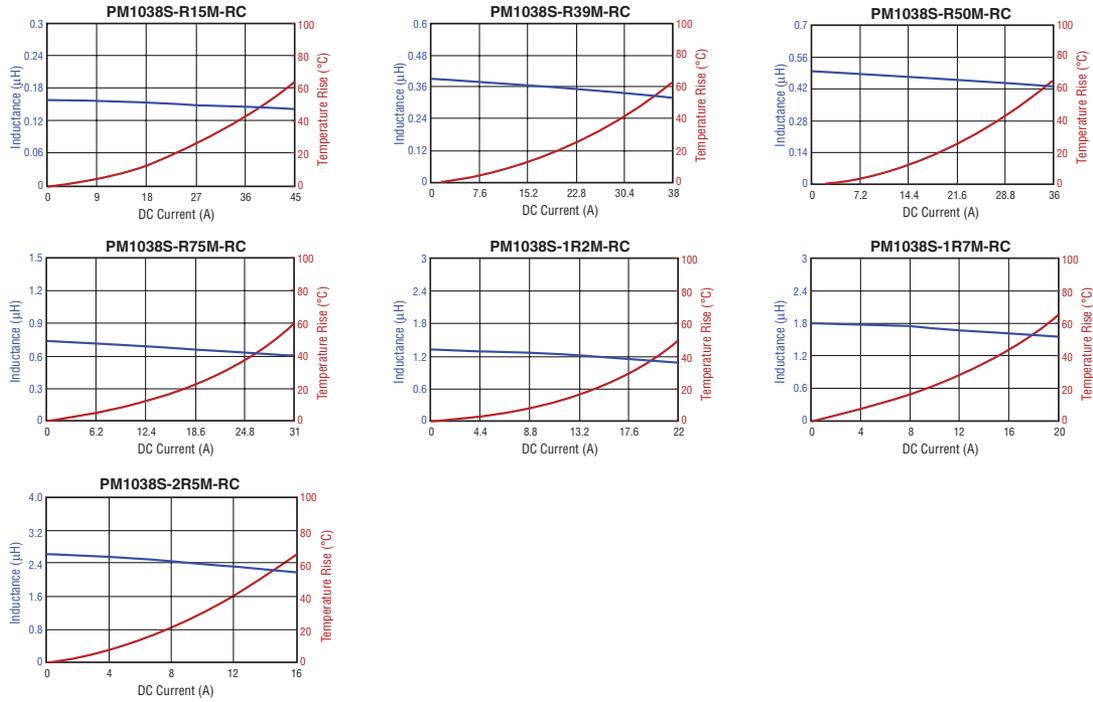
## Applications

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

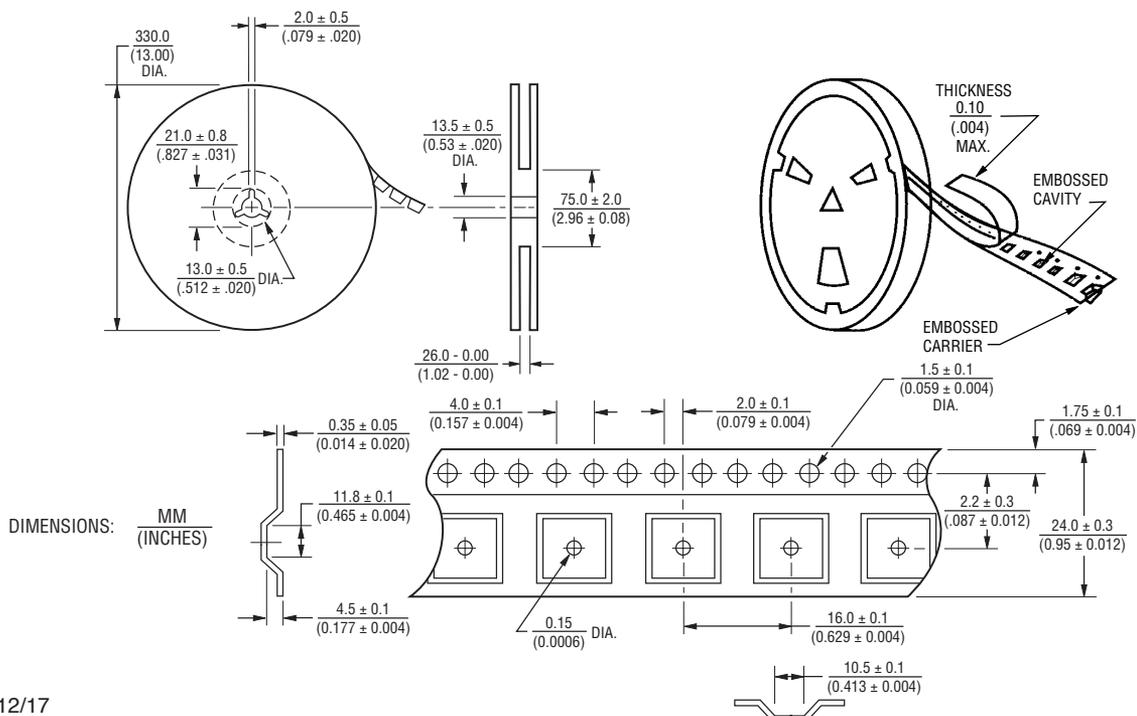
# PM1038S Series - Shielded Power Inductors

# BOURNS®

## L vs. I Charts



## Packaging Specifications



REV. 12/17

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.