

#### **Features**

- Formerly **J.W. Miller**® model
- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.15 µH to 2.5 µH
- Current up to 34 A
- RoHS compliant\*

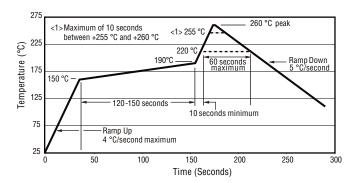


# **PM1038S Series - Shielded Power Inductors**

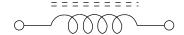
#### **Electrical Specifications**

Bourns Part No.	Inductance L (µH)	I rms (A)	l sat (A)	DCR (mΩ) 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**

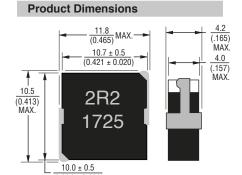


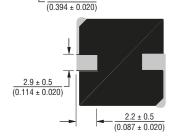
#### **Electrical Schematic**



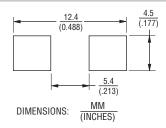
General Specifications
Test Voltage0.25 V
Test Frequency100 KHz
Reflow Soldering230 °C; 50 sec max.
Operating Temperature
55 °C to +150 °C
(Temperature rise included)
Storage Temperature
55 °C to +150 °C
Resistance to Soldering Heat
+260 °C for 10 sec.
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

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#### **Recommended Layout**





#### 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 <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>

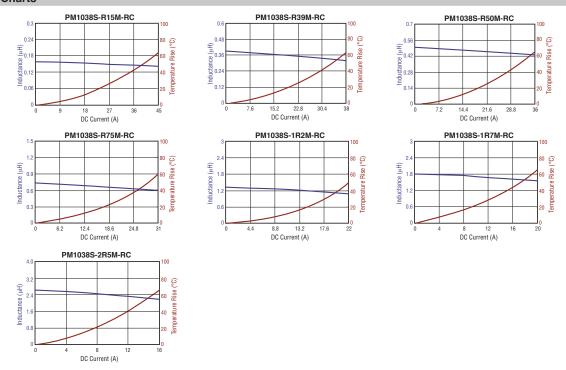
### **Applications**

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

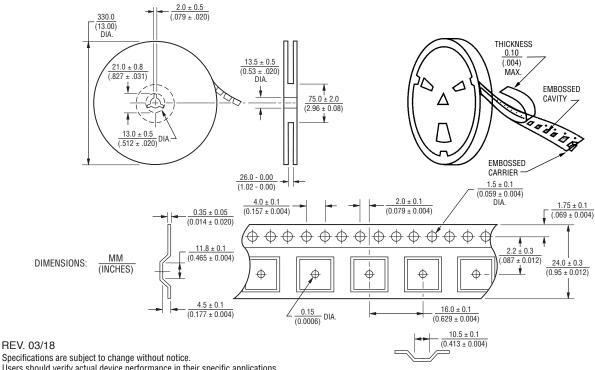
## **PM1038S Series - Shielded Power Inductors**

### BOURNS

#### L vs. I Charts



#### **Packaging Specifications**



Users should verify actual device performance in their specific applications.

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