



Features

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

Applications

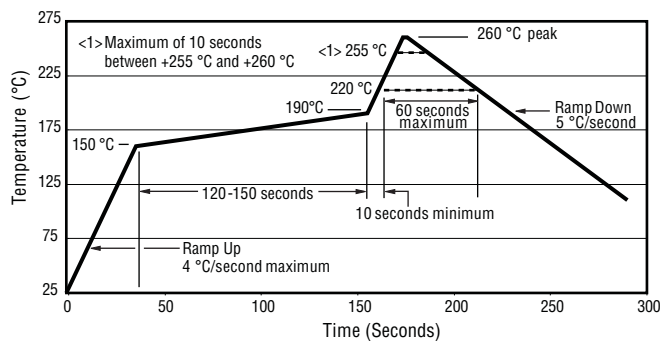
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

PM1038S Series - Shielded Power Inductors

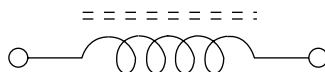
Electrical Specifications

Bourns Part No.	Inductance L (μ H)	I rms (A)	I sat (A)	DCR (m Ω) 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



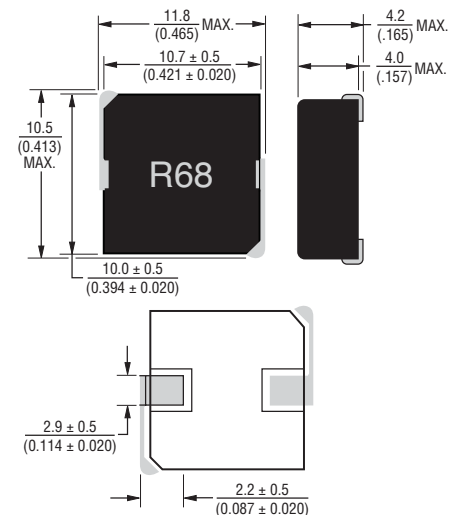
General Specifications

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.

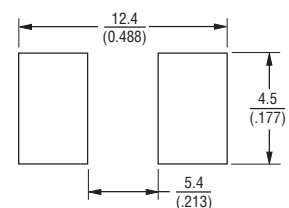
Materials

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 800 pcs. per 13-inch reel

Product Dimensions



Recommended Layout

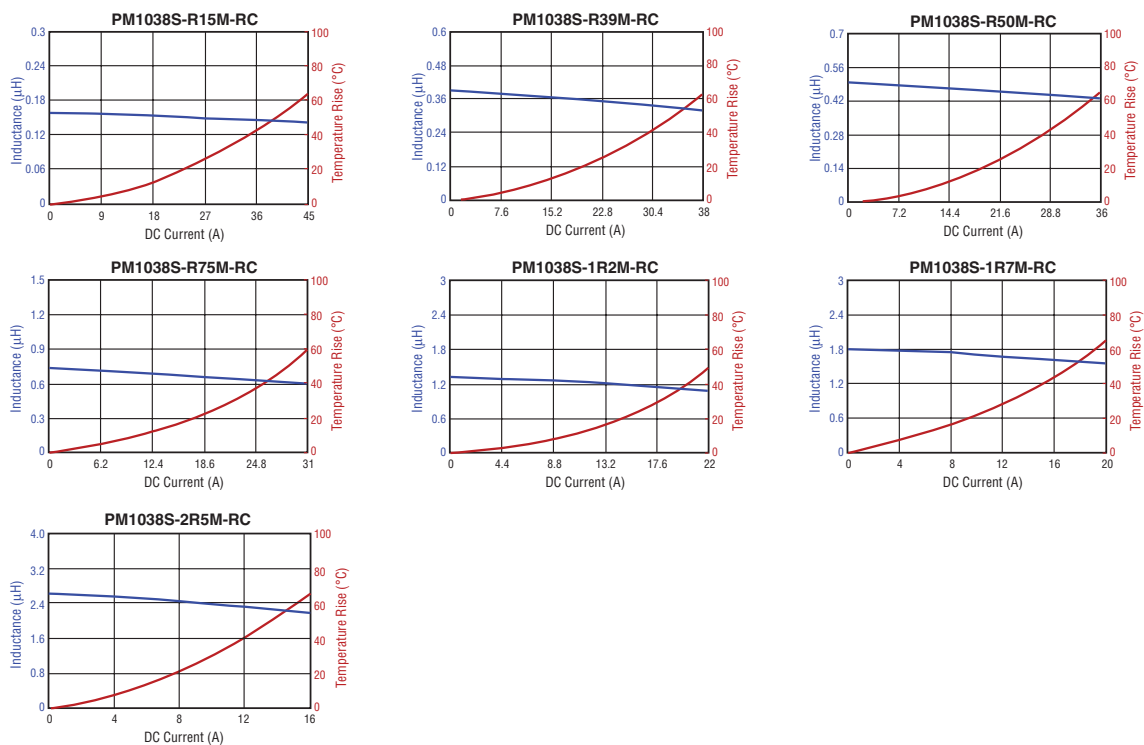


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

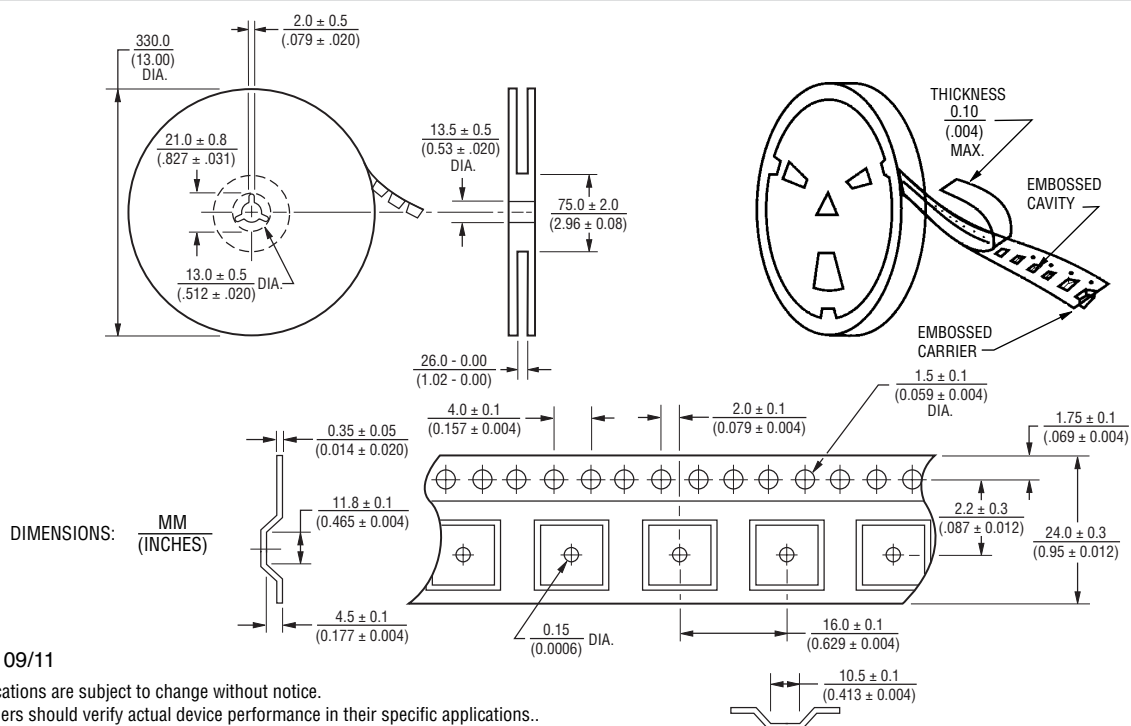
PM1038S Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



Packaging Specifications



REV. 09/11

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