



## Features

- Formerly J. W. Miller® model
- Low height of only 7.0 mm
- Inductance as low as 0.78  $\mu\text{H}$
- Current up to 15 amps
- RoHS compliant\*

## Applications

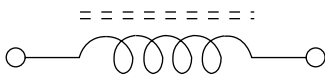
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

# PM5022H Series - SMD Power Inductors

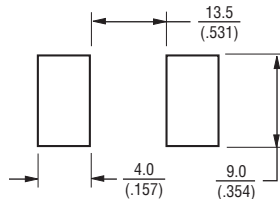
## Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (m $\Omega$ )	I <sub>rms</sub> Max. (A)	Isat Typ. (A)
	( $\mu\text{H}$ )	Tol. %						
PM5022H-R78M-RC	0.78	± 20	30	5	104.0	2.6	15.0	30.0
PM5022H-1R5M-RC	1.5	± 20	30	3	60.0	5.0	15.0	25.0
PM5022H-2R2M-RC	2.2	± 20	35	3	51.0	7.5	13.0	20.0
PM5022H-3R3M-RC	3.3	± 20	38	3	39.0	7.8	9.0	17.0
PM5022H-3R9M-RC	3.9	± 20	38	3	36.0	12.0	9.0	15.0
PM5022H-4R7M-RC	4.7	± 20	38	3	33.0	8.8	8.5	15.0
PM5022H-6R0M-RC	6.0	± 20	43	3	28.0	17.0	7.5	12.0
PM5022H-7R8M-RC	7.8	± 20	36	3	26.0	20.0	7.5	11.0
PM5022H-100M-RC	10	± 20	53	5	20.0	17.2	6.5	10.0
PM5022H-150M-RC	15	± 20	38	5	16.0	28.8	5.0	9.0

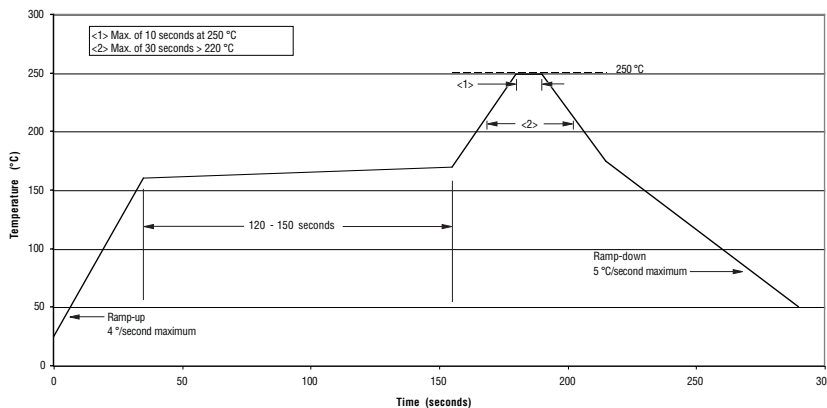
## Electrical Schematic



## Recommended Layout



## Soldering Profile



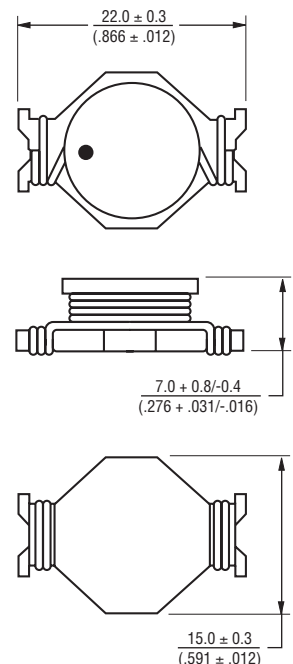
## General Specifications

Test Voltage ..... 0.1 V  
 Reflow soldering .... 250 °C; 10 sec max.  
 (In compliance with JEDEC, J-STD-020C, Table 4-2)  
 Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ..... -40 °C to +125 °C  
 Resistance to Soldering Heat ..... 250 °C, 10 sec. max.

## Materials

Core ..... Ferrite DR  
 Wire ..... Enameled copper  
 Terminal ..... Cu/Ag/Sn  
 Base ..... Phenolic T375J  
 Adhesive ..... Epoxy resin  
 Rated Current ..... Ind. drop 10 % typ. at Isat  
 Temperature Rise ..... 40 °C max. at rated I<sub>rms</sub>  
 Packaging ..... 250 pcs. per reel

## Product Dimensions



● = START OF WINDING

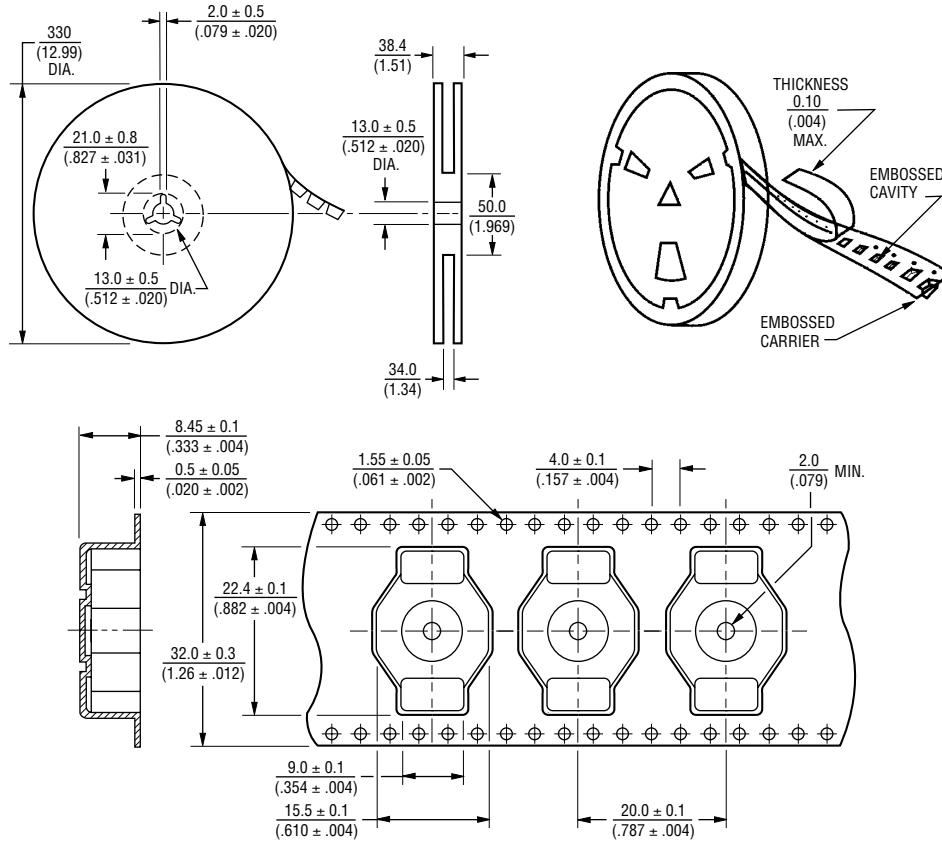
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*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.

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**BOURNS®**

## Packaging Specifications



QTY: 250 PCS. PER REEL

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

REV. 07/09

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