



Features

- Formerly J. W. Miller® model
- Low height of only 7.0 mm
- Inductance as low as 0.78 μH
- Current up to 15 amps
- RoHS compliant*

Applications

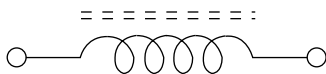
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

PM5022H Series - SMD Power Inductors

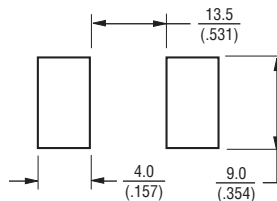
Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC ($\text{m}\Omega$)	Irms Max. (A)	Isat Typ. (A)
	(μH)	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

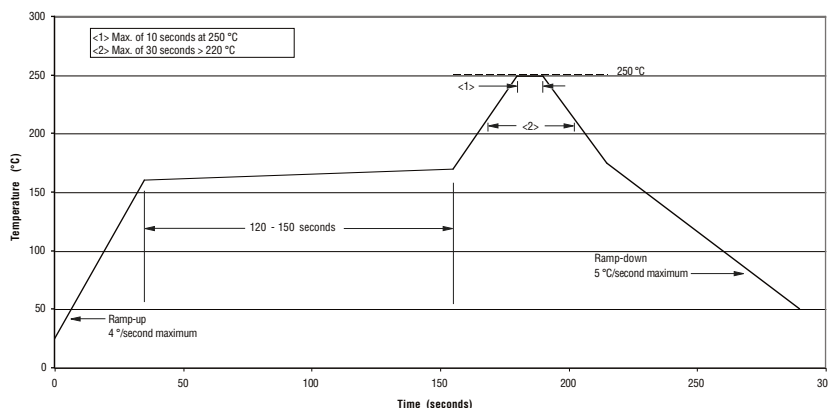
Electrical Schematic



Recommended Layout



Soldering Profile



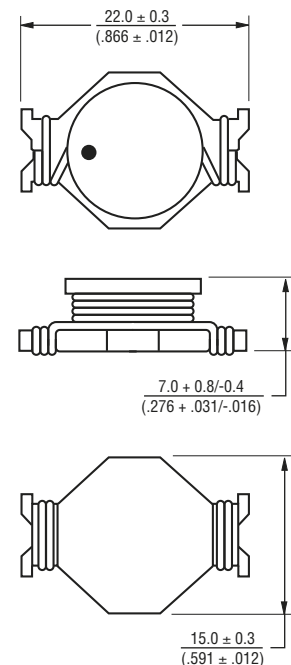
General Specifications

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.
 Moisture Sensitivity Level 2
 ESD Classification (HBM) N/A

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 Irms
 Packaging 250 pcs. per reel

Product Dimensions



● = START OF WINDING

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



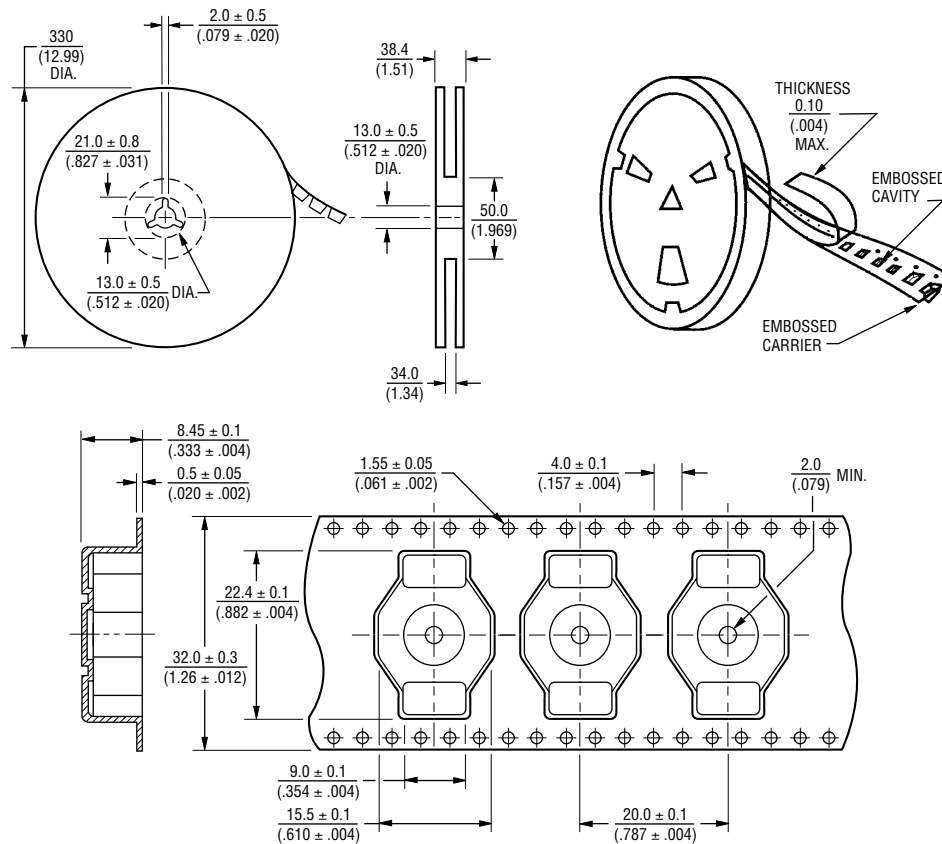
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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 www.bourns.com/docs/legal/disclaimer.pdf

PM5022H Series - SMD Power Inductors

BOURNS®

Packaging Specifications



QTY: 250 PCS. PER REEL

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

REV. 03/18

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Users should verify actual device performance in their specific applications.

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