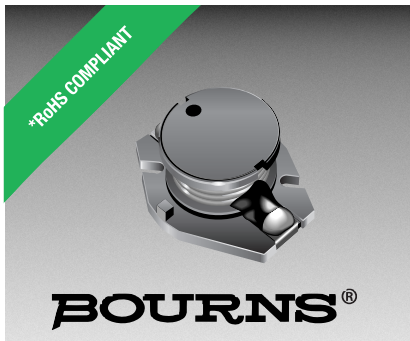




Features

- Formerly J.W. Miller® model
- Available in E6 series
- Low profile of only 6.6 mm
- Inductance as low as 1 μ H
- RoHS compliant*

Applications

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

PM5022 Series - SMD Power Inductor

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Test Q Ref.	SRF Frequency (MHz)	Typ. (MHz)	RDC (m Ω)	I rms Max. (A)	I sat Typ. (A)
	(μ H)	Tol. %						
PM5022-1R0M-RC	1.0	± 20	21	7.96	100.0	4.0	10.0	30.00
PM5022-2R2M-RC	2.2	± 20	22	7.96	55.0	6.8	9.00	22.00
PM5022-3R3M-RC	3.3	± 20	22	7.96	40.0	9.8	7.60	17.00
PM5022-5R6M-RC	5.6	± 20	23	7.96	30.0	15.0	6.40	12.80
PM5022-8R2M-RC	8.2	± 20	22	7.96	27.0	20.0	6.00	9.40
PM5022-100M-RC	10	± 20	22	2.52	25.0	25.0	5.30	10.00
PM5022-150M-RC	15	± 20	20	2.52	17.0	35.0	4.30	8.00
PM5022-220M-RC	22	± 20	22	2.52	13.0	45.0	3.60	6.70
PM5022-330M-RC	33	± 20	24	2.52	11.0	68.0	3.00	5.40
PM5022-470M-RC	47	± 20	22	2.52	9.0	95.0	2.50	4.60
PM5022-680M-RC	68	± 20	22	2.52	8.0	130.0	2.10	3.80
PM5022-101<1>-RC	100	± 10	25	0.796	7.0	190.0	1.70	3.20
PM5022-151<1>-RC	150	± 10	23	0.796	5.0	270.0	1.40	2.60
PM5022-221<1>-RC	220	± 10	20	0.796	4.5	420.0	1.10	2.20
PM5022-331<1>-RC	330	± 10	18	0.796	3.5	580.0	1.00	1.80
PM5022-471<1>-RC	470	± 10	15	0.796	3.0	820.0	0.80	1.50
PM5022-681<1>-RC	680	± 10	12	0.796	2.5	1200.0	0.70	1.20
PM5022-102<1>-RC	1000	± 10	10	0.252	2.0	1800.0	0.50	1.00

<1> Enter tolerance code: K = ± 10 %, M = ± 20 %.

Additional Information

Click these links for more information:



Electrical Schematic



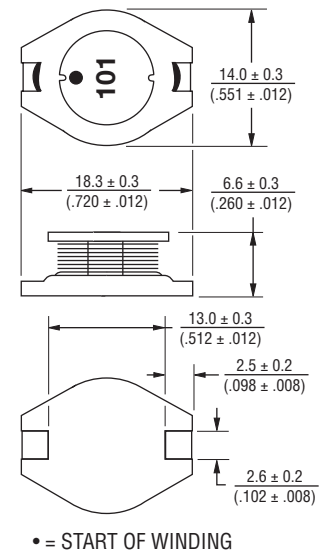
General Specifications

Test Voltage.....0.1 V
 Operating Temperature
-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature
-40 °C to +125 °C
 Moisture Sensitivity Level.....1
 ESD Classification (HBM).....N/A

Materials

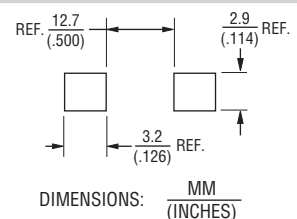
Core.....Ferrite DR
 Wire.....Enameled copper
 Base.....LCP E4008
 Terminal.....Sn
 Rated Current
Ind. drop 10 % typ. at Isat
 Temp. Rise.....40 °C max. at rated Irms
 Packaging.....250 pcs. per reel

Product Dimensions



• = START OF WINDING

Recommended Layout



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
 See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

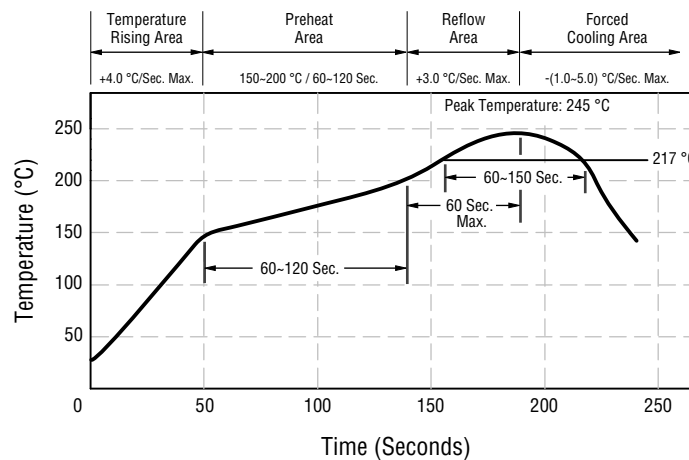
The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

PM5022 Series - SMD Power Inductor

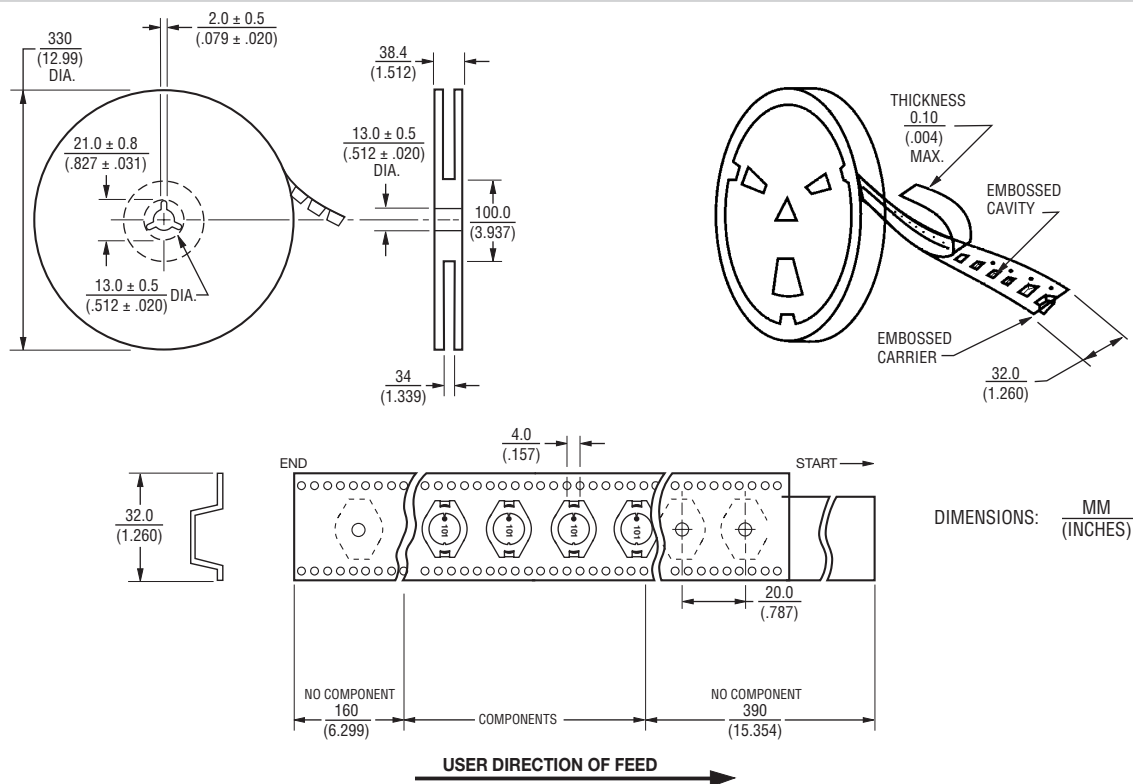
BOURNS®

Soldering Profile

Peak Temperature: 245 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60-150 sec. max.



Packaging Specifications



REV. 11/25

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.

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