



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**BOURNS®**

### Features

- Formerly J. W. Miller® model
- Available in E12 series
- Low profile of only 2.5 mm
- Low inductance values
- RoHS compliant\*

### Applications

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

## PM32 Series - SMD Power Inductors

### Electrical Specifications

Bourns Part No.	Inductance 1 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM32-1R0M-RC	1.0	± 20	20	7.96	125.0	0.06	2.100	2.700
PM32-1R4M-RC	1.4	± 20	22	7.96	95.0	0.07	1.500	2.300
PM32-1R8M-RC	1.8	± 20	23	7.96	85.0	0.08	1.800	2.000
PM32-2R2M-RC	2.2	± 20	22	7.96	75.0	0.09	1.650	1.850
PM32-2R7M-RC	2.7	± 20	22	7.96	72.0	0.10	1.500	1.700
PM32-3R3M-RC	3.3	± 20	23	7.96	68.0	0.11	1.400	1.600
PM32-3R9M-RC	3.9	± 20	24	7.96	50.0	0.12	1.300	1.500
PM32-4R7M-RC	4.7	± 20	18	7.96	45.0	0.15	1.200	1.350
PM32-5R6M-RC	5.6	± 20	18	7.96	42.0	0.16	1.100	1.300
PM32-6R8M-RC	6.8	± 20	18	7.96	40.0	0.18	1.000	1.200
PM32-8R2M-RC	8.2	± 20	16	7.96	35.0	0.20	0.900	1.050
PM32-100M-RC	10.0	± 20	18	2.52	34.0	0.25	0.800	0.900
PM32-120M-RC	12.0	± 20	15	2.52	33.0	0.28	0.750	0.850
PM32-150M-RC	15.0	± 20	20	2.52	32.0	0.40	0.650	0.800
PM32-180M-RC	18.0	± 20	18	2.52	28.0	0.46	0.580	0.750
PM32-220M-RC	22.0	± 20	23	2.52	22.0	0.66	0.520	0.650
PM32-270M-RC	27.0	± 20	23	2.52	20.0	0.75	0.480	0.550
PM32-330M-RC	33.0	± 20	20	2.52	18.0	0.85	0.420	0.500
PM32-390M-RC	39.0	± 20	24	2.52	18.0	1.12	0.380	0.450
PM32-470M-RC	47.0	± 20	23	2.52	17.0	1.27	0.360	0.400
PM32-560M-RC	56.0	± 20	18	2.52	16.0	1.45	0.340	0.350
PM32-680M-RC	68.0	± 20	24	2.52	14.0	1.85	0.300	0.320
PM32-820M-RC	82.0	± 20	24	2.52	12.0	2.10	0.280	0.300
PM32-101M-RC	100.0	± 20	40	0.796	10.0	2.85	0.260	0.280
PM32-121M-RC	120.0	± 20	40	0.796	10.0	3.20	0.220	0.250
PM32-151M-RC	150.0	± 20	38	0.796	9.0	4.60	0.200	0.230
PM32-181M-RC	180.0	± 20	45	0.796	8.5	5.00	0.185	0.210
PM32-221M-RC	220.0	± 20	40	0.796	8.0	5.70	0.170	0.190
PM32-271M-RC	270.0	± 20	45	0.796	7.0	8.60	0.150	0.170
PM32-331M-RC	330.0	± 20	40	0.796	6.0	10.00	0.130	0.150
PM32-391M-RC	390.0	± 20	40	0.796	5.5	10.80	0.120	0.140
PM32-471M-RC	470.0	± 20	42	0.796	5.0	14.30	0.105	0.130

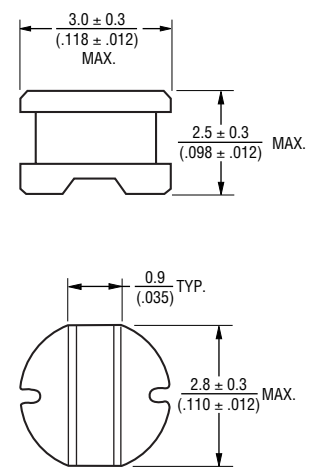
### General Specifications

Test Voltage.....1 V  
 Reflow Soldering .. 230 °C, 50 sec. max.  
 Operating Temperature  
 .....-40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature  
 .....-40 °C to +125 °C  
 Resistance to Soldering Heat  
 ..... 260 °C for 5 sec.

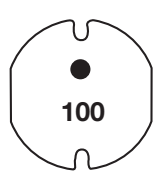
### Materials

Core ..... Ferrite DR  
 Wire ..... Enamelled copper wire 130  
 Terminal ..... Ag/Ni/Sn  
 Rated Current  
 ..... Ind. drop 10 % typ. at Isat  
 Temperature Rise ..... 40 °C max.  
 at rated I rms  
 Packaging..... 1500 pcs. per reel

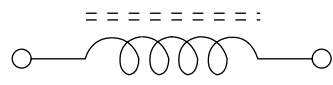
### Product Dimensions



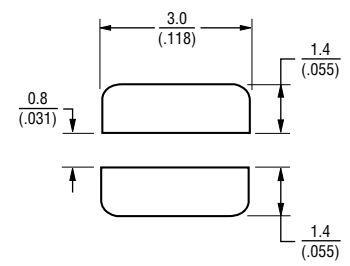
### Typical Part Marking



### Electrical Schematic



### Recommended Layout



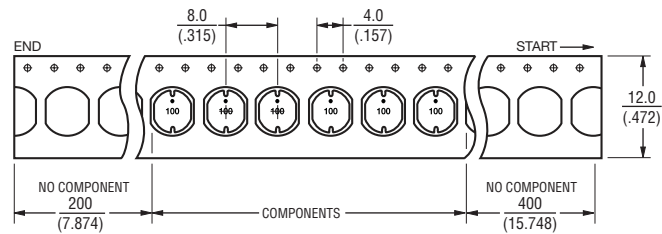
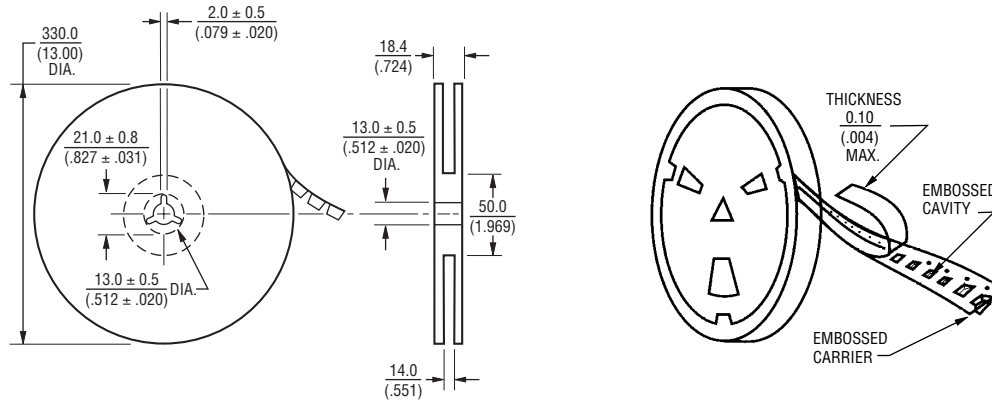
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*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.

# PM32 Series - SMD Power Inductors

**BOURNS®**

## Packaging Specifications



USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

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

REV. 05/09

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