



**THE DATASHEET OF  
PM75-221K-RC**





## Features

- Formerly **J. W. Miller**® model
- Available in E12 series
- Small design of only 7.8 mm maximum diameter
- RoHS compliant\*

## Applications

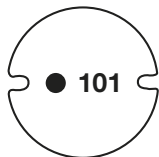
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

# PM75 Series - SMD Power Inductor

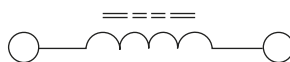
## Electrical Specifications

Bourns Part No.	Inductance 1 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM75-100K-RC	10	± 10	25	2.52	22	0.07	2.30	3.20
PM75-120K-RC	12	± 10	25	2.52	20	0.08	2.00	3.00
PM75-150K-RC	15	± 10	25	2.52	16	0.09	1.80	2.70
PM75-180K-RC	18	± 10	20	2.52	15	0.10	1.60	2.60
PM75-220K-RC	22	± 10	20	2.52	13	0.11	1.50	2.30
PM75-270K-RC	27	± 10	20	2.52	12	0.12	1.30	2.10
PM75-330K-RC	33	± 10	15	2.52	10	0.14	1.20	1.90
PM75-390K-RC	39	± 10	15	2.52	10	0.16	1.10	1.70
PM75-470K-RC	47	± 10	15	2.52	9	0.20	1.00	1.60
PM75-560K-RC	56	± 10	15	2.52	9	0.24	0.94	1.50
PM75-680K-RC	68	± 10	15	2.52	8	0.30	0.85	1.30
PM75-820K-RC	82	± 10	12	2.52	7	0.37	0.78	1.20
PM75-101K-RC	100	± 10	12	0.796	7	0.45	0.72	1.10
PM75-121K-RC	120	± 10	12	0.796	7	0.48	0.68	1.00
PM75-151K-RC	150	± 10	12	0.796	6	0.68	0.58	0.85
PM75-181K-RC	180	± 10	12	0.796	6	0.77	0.51	0.80
PM75-221K-RC	220	± 10	12	0.796	5	0.96	0.49	0.80
PM75-271K-RC	270	± 10	12	0.796	5	1.11	0.42	0.66
PM75-331K-RC	330	± 10	12	0.796	5	1.26	0.40	0.58
PM75-391K-RC	390	± 10	12	0.796	4	1.77	0.36	0.55
PM75-471K-RC	470	± 10	12	0.796	4	1.96	0.34	0.50

## Typical Part Marking



## Electrical Schematic



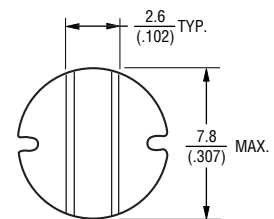
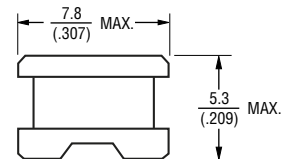
## General Specifications

Test Frequency ..... 1 KHz  
 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.  
 Moisture Sensitivity Level..... 2  
 ESD Classification (HBM)..... N/A

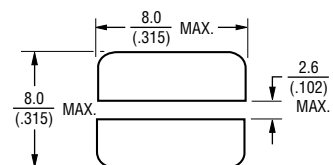
## Materials

Core..... Ferrite DR core  
 Wire ..... Enameled copper wire  
 Terminal ..... Ag/Ni/Sn  
 Rated Current  
 ..... Ind. drop 10 % typ. at Isat  
 Temperature Rise  
 ..... 40°C max. at rated Irms  
 Packaging..... 500 pcs. per reel

## Product Dimensions



## Recommended Layout



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



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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](http://www.bourns.com/docs/legal/disclaimer.pdf)

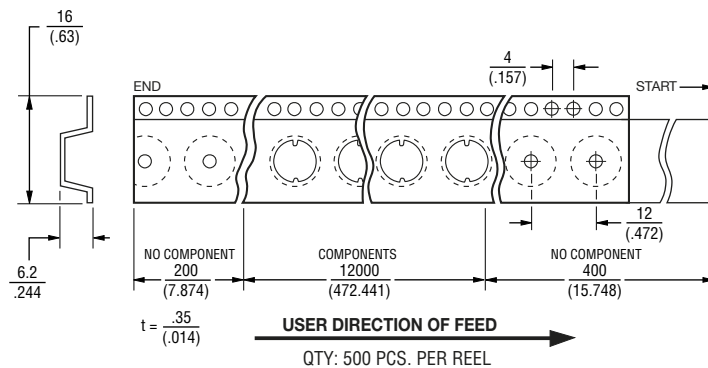
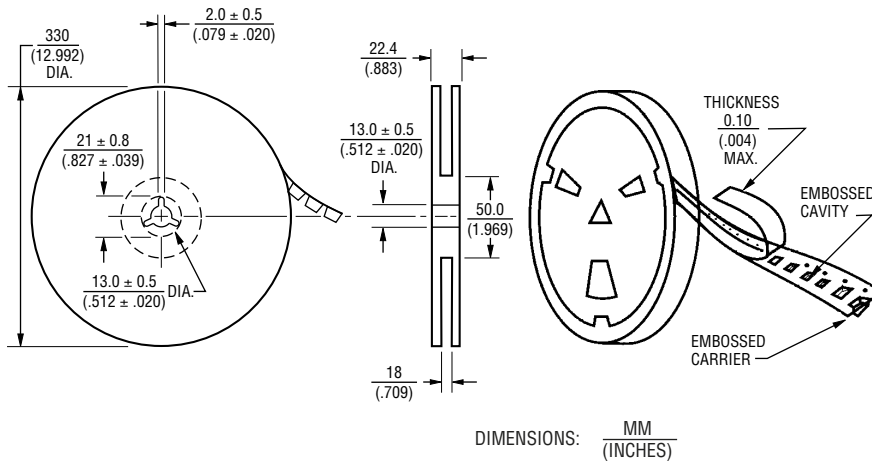
# PM75 Series - SMD Power Inductor

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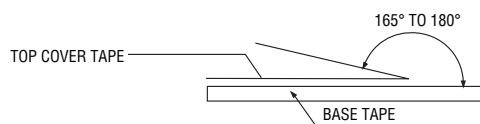
## Packaging Specifications

## Materials

Paper  
Plastics



## Strength of Cover Tape



The force for tearing off cover tape is 10 to 130 grams in the arrow direction.

REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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