



## Features

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

## Applications

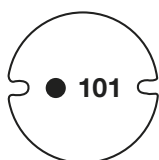
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

# PM75 Series - SMD Power Inductor

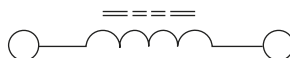
## Electrical Specifications

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



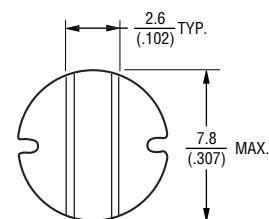
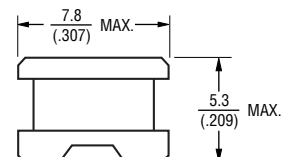
## General Specifications

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

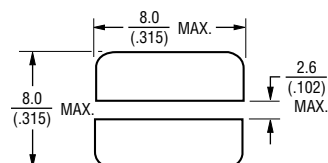
## Materials

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.  
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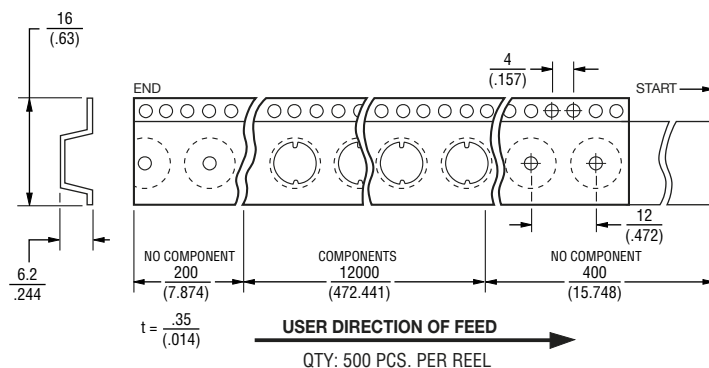
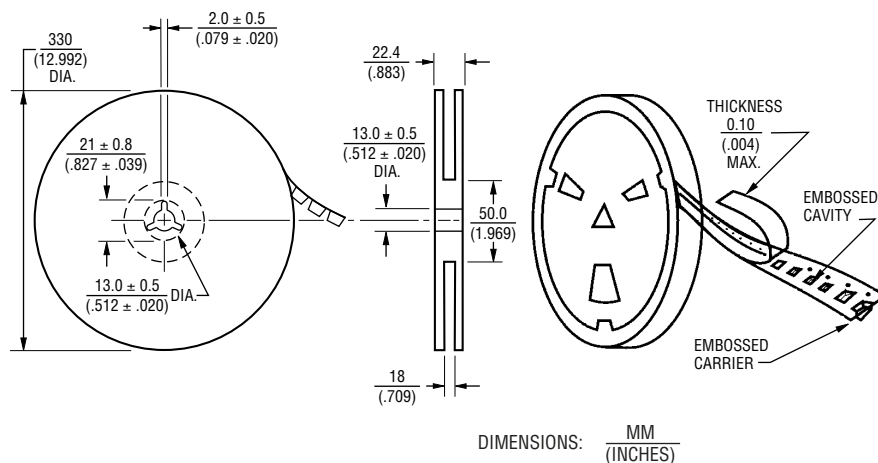
# PM75 Series - SMD Power Inductor

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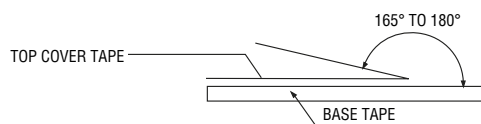
## Packaging Specifications

## 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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