



Features

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

Applications

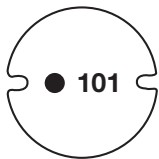
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

PM75 Series - SMD Power Inductor

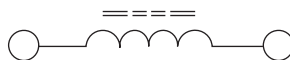
Electrical Specifications

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



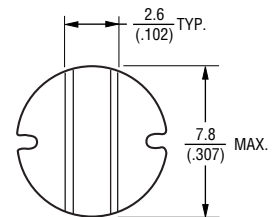
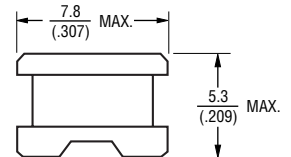
General Specifications

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

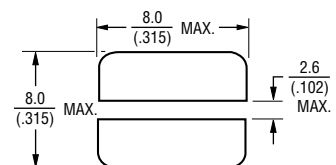
Materials

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 I rms
 Packaging 500 pcs. per reel

Product Dimensions



Recommended Layout



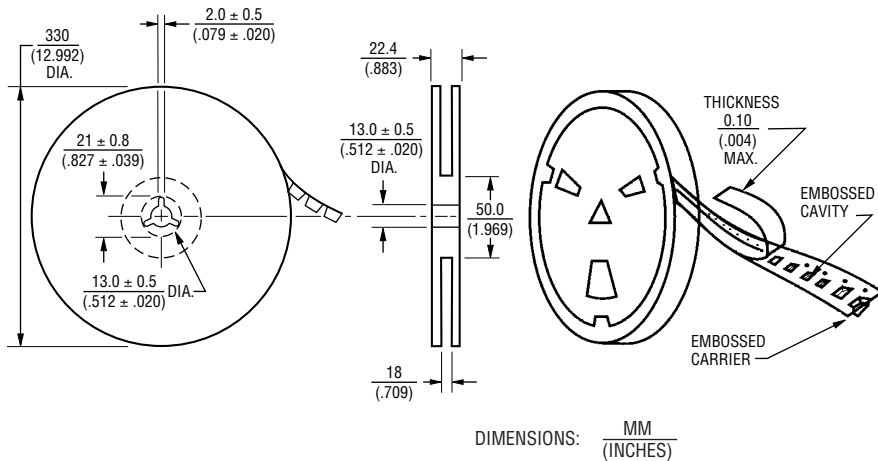
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

*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. 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.

PM75 Series - SMD Power Inductor

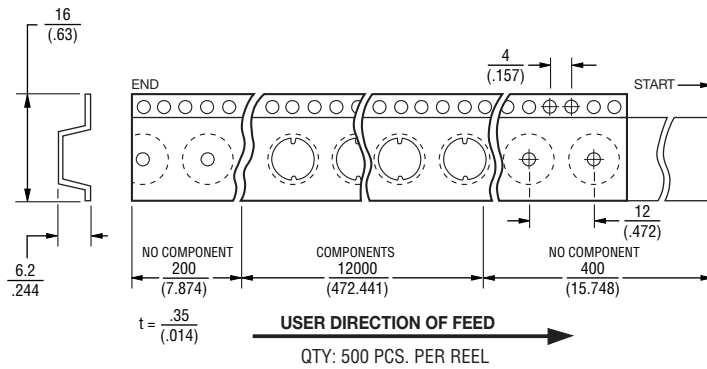
BOURNS®

Packaging Specifications

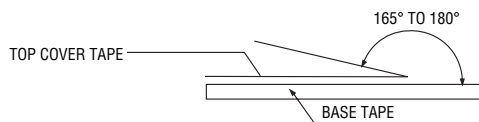


Materials

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

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