



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	3.00	4.00
PM75-120K-RC	12	± 10	25	2.52	20	0.08	2.75	3.70
PM75-150K-RC	15	± 10	25	2.52	16	0.09	2.60	3.20
PM75-180K-RC	18	± 10	20	2.52	15	0.10	2.50	3.00
PM75-220K-RC	22	± 10	20	2.52	13	0.11	2.30	2.70
PM75-270K-RC	27	± 10	20	2.52	12	0.12	2.20	2.50
PM75-330K-RC	33	± 10	15	2.52	10	0.14	2.00	2.20
PM75-390K-RC	39	± 10	15	2.52	10	0.16	1.90	2.00
PM75-470K-RC	47	± 10	15	2.52	9	0.20	1.65	1.90
PM75-560K-RC	56	± 10	15	2.52	9	0.24	1.50	1.70
PM75-680K-RC	68	± 10	15	2.52	8	0.30	1.35	1.50
PM75-820K-RC	82	± 10	12	2.52	7	0.37	1.25	1.40
PM75-101K-RC	100	± 10	12	0.796	7	0.45	1.05	1.25
PM75-121K-RC	120	± 10	12	0.796	7	0.48	1.00	1.15
PM75-151K-RC	150	± 10	12	0.796	6	0.68	0.85	1.00
PM75-181K-RC	180	± 10	12	0.796	6	0.77	0.70	0.90
PM75-221K-RC	220	± 10	12	0.796	5	0.96	0.63	0.85
PM75-271K-RC	270	± 10	12	0.796	5	1.11	0.60	0.75
PM75-331K-RC	330	± 10	12	0.796	5	1.26	0.56	0.70
PM75-391K-RC	390	± 10	12	0.796	4	1.77	0.50	0.65
PM75-471K-RC	470	± 10	12	0.796	4	1.96	0.48	0.60

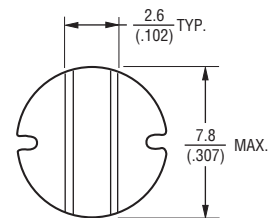
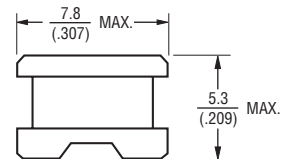
General Specifications

Test Frequency 1 KHz
 Test Voltage 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

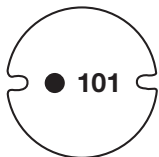
Materials

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

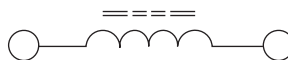
Product Dimensions



Typical Part Marking



Electrical Schematic

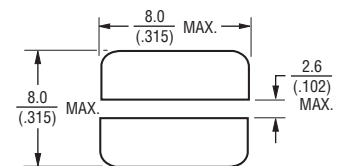


Additional Information

Click these links for more information:



Recommended Layout



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



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. Specifications are subject to change without notice.

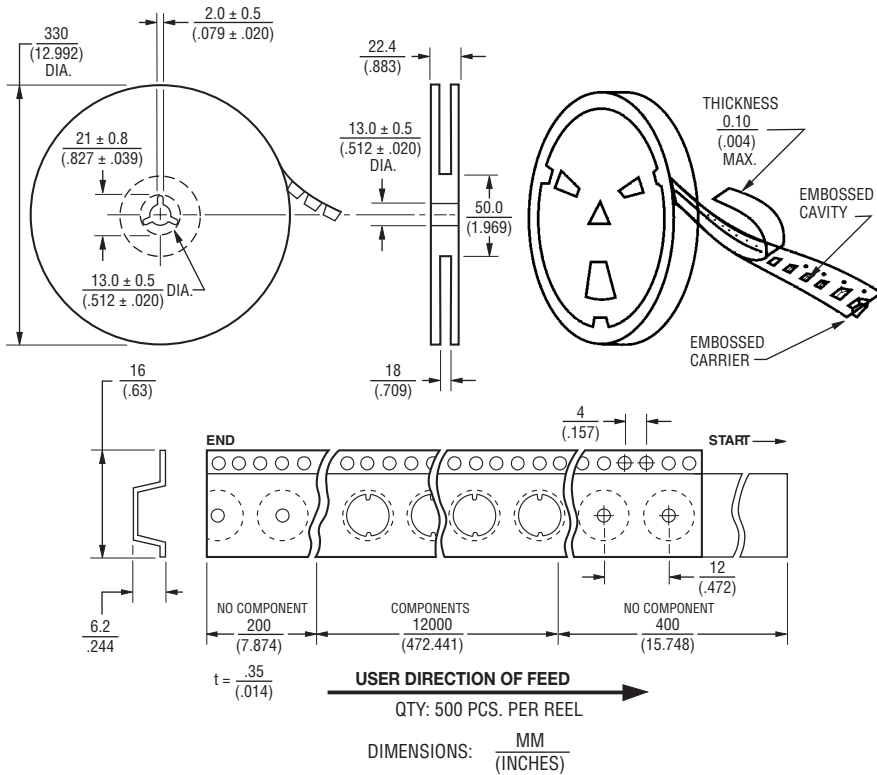
Users should verify actual device performance in their specific applications.

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PM75 Series - SMD Power Inductor

BOURNS®

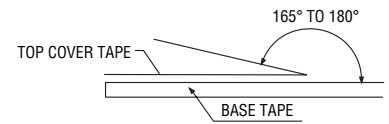
Packaging Specifications



Materials

Paper
Plastics

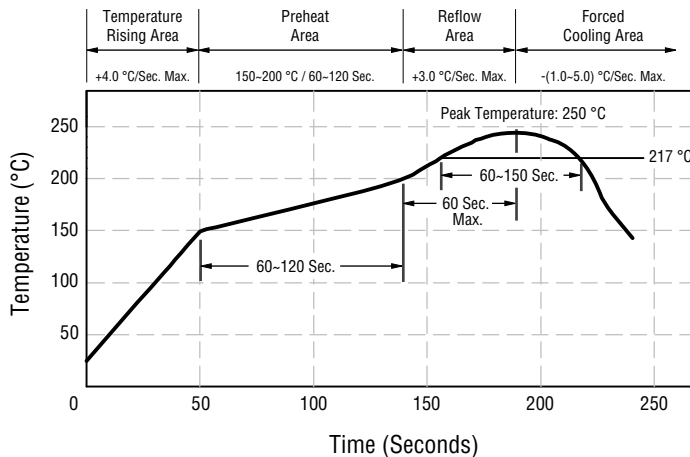
Strength of Cover Tape



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

Soldering Profile

Peak Temperature: 250 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60-150 sec. max.



REV. 05/26

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