

Features

- Formerly J.W.Miller® model
- Available in E12 series
- Small design of only 9.8 mm maximum diameter
- RoHS compliant*

Applications

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

PM105 Series - SMD Power Inductor

Electrical Specifications

	Inductance 1 kHz			Test	SRF		I rms	I sat
Bourns Part No.	(μH)	Tol. %	Q Ref.	Frequency (MHz)	Min. (MHz)	RDC (Ω)	Max. (A)	Тур. (A)
PM105-100M-RC	10	± 20	30	2.52	21	0.060	2.60	5.10
PM105-120M-RC	12	± 20	30	2.52	20	0.070	2.45	4.50
PM105-150M-RC	15	± 20	30	2.52	16	0.080	2.25	4.00
PM105-180M-RC	18	± 20	30	2.52	15	0.090	2.15	3.80
PM105-220M-RC	22	± 20	25	2.52	13	0.10	1.95	3.50
PM105-270K-RC	27	± 10	25	2.52	11	0.11	1.75	3.40
PM105-330K-RC	33	± 10	25	2.52	10	0.12	1.50	2.90
PM105-390K-RC	39	± 10	20	2.52	9.0	0.14	1.35	2.60
PM105-470K-RC	47	± 10	20	2.52	8.0	0.17	1.25	2.30
PM105-560K-RC	56	± 10	20	2.52	7.5	0.19	1.15	2.10
PM105-680K-RC	68	± 10	15	2.52	7.0	0.22	1.10	2.00
PM105-820K-RC	82	± 10	15	2.52	6.0	0.25	1.00	1.90
PM105-101K-RC	100	± 10	15	0.796	5.2	0.35	0.97	1.70
PM105-121K-RC	120	± 10	15	0.796	5.0	0.40	0.89	1.50
PM105-151K-RC	150	± 10	15	0.796	4.5	0.47	0.78	1.40
PM105-181K-RC	180	± 10	12	0.796	4.0	0.63	0.72	1.30
PM105-221K-RC	220	± 10	12	0.796	3.8	0.73	0.66	1.10
PM105-271K-RC	270	± 10	12	0.796	3.5	0.97	0.57	1.00
PM105-331K-RC	330	± 10	12	0.796	3.2	1.15	0.52	0.85
PM105-391K-RC	390	± 10	12	0.796	3.0	1.30	0.48	0.80
PM105-471K-RC	470	± 10	12	0.796	2.5	1.48	0.42	0.80
PM105-561K-RC	560	± 10	12	0.796	2.3	1.90	0.33	0.66
PM105-681K-RC	680	± 10	12	0.796	2.1	2.25	0.28	0.65
PM105-821K-RC	820	± 10	10	0.796	2.0	2.55	0.24	0.56

Typical Part Marking

BOURNS®



Electrical Schematic



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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com



WARNING Cancer and Reproductive Harm - 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

General Specifications

Test Frequency......1 KHz Test Voltage1 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

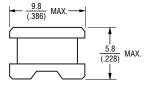
Resistance to Soldering Heat260 °C for 5 sec. Moisture Sensitivity Level.....2 ESD Classification (HBM).....N/A

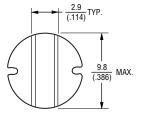
Materials

Core..... Ferrite DR core Wire Enameled copper wire TerminalAg/Ni/Sn Rated CurrentInd. drop 10 % typ. at Isat Temperature Rise

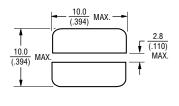
......40°C max. at rated Irms Packaging......500 pcs. per reel

Product Dimensions





Recommended Layout

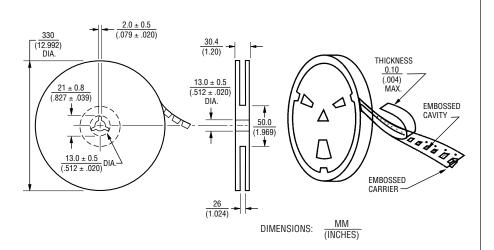


DIMENSIONS: (INCHES)

PM105 Series - SMD Power Inductor

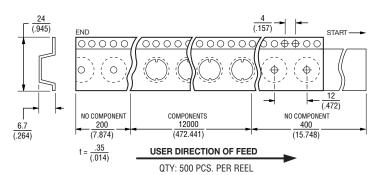
BOURNS®

Packaging Specifications

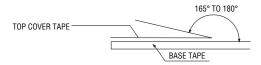


Materials

Paper Plastics



Strength of Cover Tape



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

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