

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

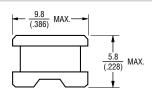
Electrical Specifications

	Inductar	ice 1 kHz		Test	SRF		l rms	l sat
Bourns Part No.	(µH)	Tol. %	Q Ref.	Frequency (MHz)	Min. (MHz)	RDC (Ω)	Max. (A)	Тур. (А)
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

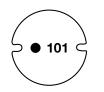
General Specifications

Test Frequency Test Voltage Reflow Soldering 23 Operating Temperatur	1 V 0 °C, 50 sec. max. e
· · ·	ature rise included)
Storage Temperature.	
Resistance to Soldering	0
Moisture Sensitivity Le ESD Classification (H	evel1
	Divi)
Materials	
	Ferrite DR core meled copper wire
Materials CoreEna WireEna Terminal Rated Current Ind. dro	Ferrite DR core meled copper wire Ag/Ni/Sn
Materials CoreEna WireEna Terminal Rated Current	Ferrite DR core meled copper wire Ag/Ni/Sn op 10 % typ. at Isat max. at rated Irms

Product Dimensions

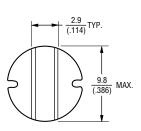


Typical Part Marking



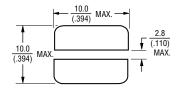
Electrical Schematic





Recommended Layout

DIMENSIONS:



MM

(INCHES)

WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

*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.

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PM105 Series - SMD Power Inductor

Packaging Specifications $\frac{2.0 \pm 0.5}{(.079 \pm .020)}$ 330 (12.992) DIA. 30.4 (1.20) THICKNESS 0.10 (.004) MAX $\frac{13.0 \pm 0.5}{(.512 \pm .020)}$ DIA. 21 ± 0.8 (.827 ± .039) 0 EMBOSSED ł CAVITY _ Δ 50.0 (1.969) ł à Ò $\frac{10.0 \pm 0.5}{(.512 \pm .020)} \text{DIA}.$ 13.0 ± 0.5 EMBOSSED CARRIER — 26 (1.024) MM DIMENSIONS: (INCHES) <u>24</u> (.945) (.157) END START -00000 00000 0000 000000 0 (ሐ 12 (.472) NO COMPONENT COMPONENTS NO COMPONENT <u>200</u> (7.874) 400 (15.748) 12000 (472.441) <u>6.7</u> (.264) $t = \frac{.35}{(.014)}$ USER DIRECTION OF FEED QTY: 500 PCS. PER REEL

Strength of Cover Tape

165° TO 180° TOP COVER TAPE BASE TAPE

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

BOURNS

Materials

Paper Plastics

REV. 05/19

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