

Features

- Formerly **J. W. Miller®** model
- Available in E6 series
- Unit height of 3.8 mm
- Current up to 7.2 A
- RoHS compliant*

Applications

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

PM104SH Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM104SH-1R5-RC	1.5	± 30	14	7.96	65.0	5.2	7.20	7.00
PM104SH-2R5-RC	2.5	± 30	12	7.96	50.0	12.5	6.10	6.00
PM104SH-3R8-RC	3.8	± 30	14	7.96	35.0	15.0	5.50	5.50
PM104SH-5R2-RC	5.2	± 30	12	7.96	30.0	22.0	4.60	4.80
PM104SH-7R0-RC	7.0	± 30	13	7.96	36.0	35.0	3.90	4.00
PM104SH-100-RC	10.0	± 30	24	7.96	20.0	25.0	3.80	3.60
PM104SH-150-RC	15.0	± 30	24	2.52	16.0	37.0	2.80	2.70
PM104SH-220-RC	22.0	± 30	20	2.52	12.0	55.8	2.20	2.30
PM104SH-330-RC	33.0	± 30	22	2.52	10.0	86.0	1.80	1.80
PM104SH-470-RC	47.0	± 30	22	2.52	8.0	121.0	1.65	1.60
PM104SH-680-RC	68.0	± 30	24	2.52	7.0	166.0	1.10	1.30
PM104SH-101-RC	100.0	± 30	24	0.796	6.0	220.0	1.30	1.10
PM104SH-151-RC	150.0	± 30	20	0.796	5.0	358.0	0.90	0.80
PM104SH-221-RC	220.0	± 30	22	0.796	4.0	565.0	0.65	0.65
PM104SH-331-RC	330.0	± 30	20	0.796	3.0	773.0	0.55	0.52

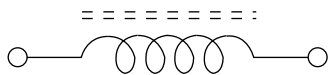
General Specifications

Test Voltage 1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.
 Moisture Sensitivity Level 2
 ESD Classification (HBM)..... N/A

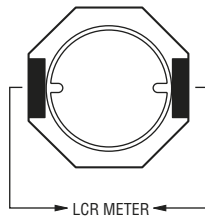
Materials

Core Ferrite DR and RI core
 Wire Enamelled copper
 Base LCP E4008
 Terminal Ag/Ni/Sn
 Rated Current
 Ind. drop 35 % typ. at Isat
 Temperature Rise
 40 °C max. at rated Irms
 Packaging 1000 pcs. per reel

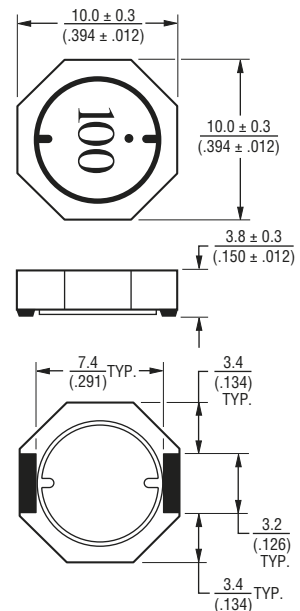
Electrical Schematic



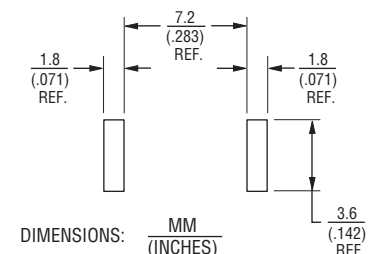
Inductor Connection



Product Dimensions



Recommended Layout



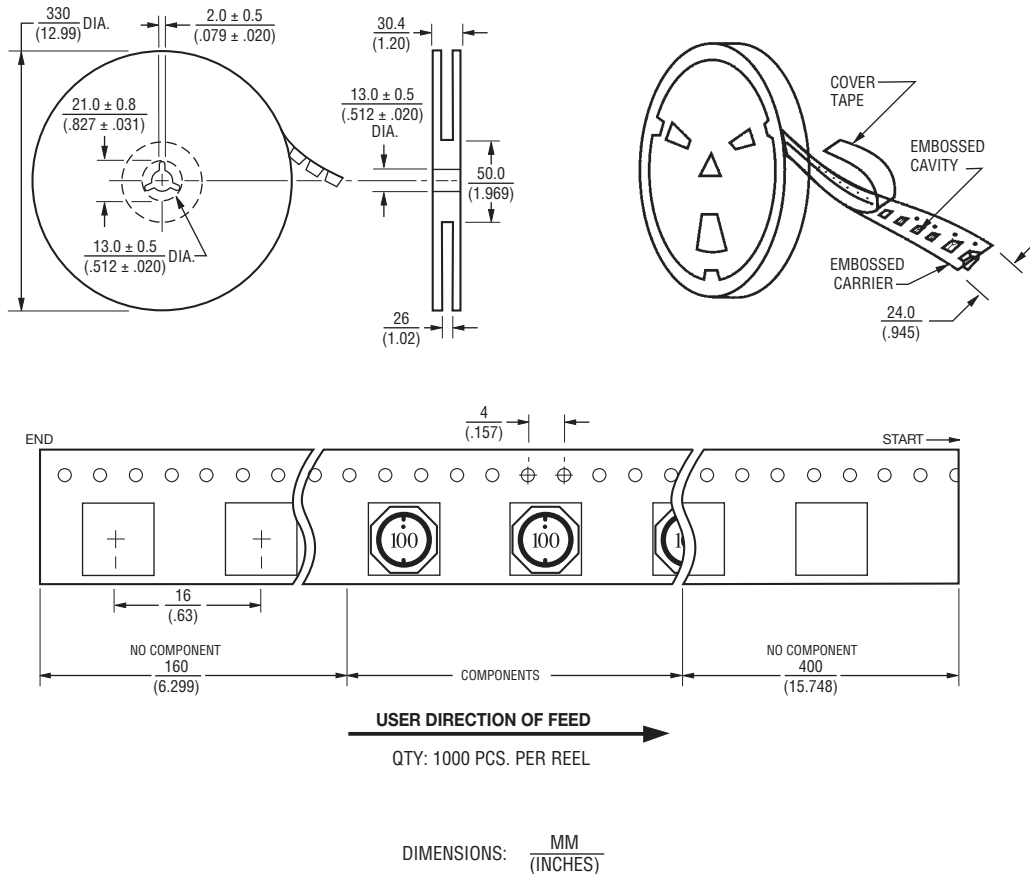
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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

PM104SH Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



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REV. 03/18

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