

### Features

- Formerly J. W. Miller® model
- Available in E12 series
- Height of 2.9 mm
- Current rating up to 2.1 A
- RoHS compliant\*

### Applications

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

## PM105SB Series - Shielded SMD Power Inductor

### Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (Ω)	Idc (A)
	(μH)	Tol. %					
PM105SB-100M-RC	10	±20	39	2.52	29	0.06	2.1
PM105SB-120M-RC	12	±20	40	2.52	26	0.07	1.9
PM105SB-150M-RC	15	±20	35	2.52	24	0.07	1.7
PM105SB-180M-RC	18	±20	39	2.52	21	0.08	1.6
PM105SB-220M-RC	22	±20	35	2.52	18	0.08	1.4
PM105SB-270M-RC	27	±20	35	2.52	17	0.10	1.3
PM105SB-330L-RC	33	±15	27	2.52	14	0.11	1.2
PM105SB-390L-RC	39	±15	31	2.52	14	0.12	1.1
PM105SB-470L-RC	47	±15	27	2.52	11	0.14	1.0
PM105SB-560L-RC	56	±15	26	2.52	11	0.19	0.93
PM105SB-680L-RC	68	±15	26	2.52	10	0.21	0.85
PM105SB-820L-RC	82	±15	26	2.52	9	0.28	0.79
PM105SB-101K-RC	100	±10	29	0.796	8	0.34	0.72
PM105SB-121K-RC	120	±10	31	0.796	7	0.37	0.63
PM105SB-151K-RC	150	±10	24	0.796	6	0.51	0.55
PM105SB-181K-RC	180	±10	24	0.796	5	0.57	0.50
PM105SB-221K-RC	220	±10	27	0.796	5	0.78	0.47
PM105SB-271K-RC	270	±10	30	0.796	5	0.87	0.41
PM105SB-331K-RC	330	±10	29	0.796	4	1.20	0.37
PM105SB-391K-RC	390	±10	26	0.796	3	1.34	0.35
PM105SB-471K-RC	470	±10	26	0.796	3	1.50	0.33

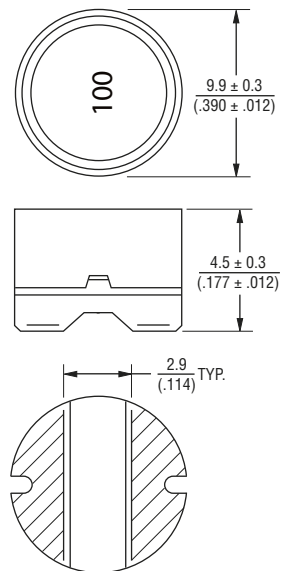
### General Specifications

Test Voltage ..... 1 Volt  
 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 5 sec.  
 Moisture Sensitivity Level..... 2  
 ESD Classification (HBM)..... N/A

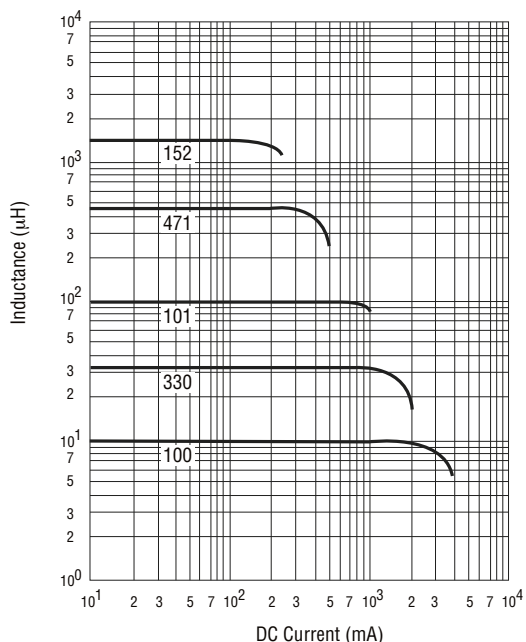
### Materials

Core Material..... Ferrite DR & RI  
 Wire ..... Enameled Copper  
 Terminal ..... Ag/Ni/Sn  
 Rated Current  
 ..... Ind. drop 10 % typ at I sat  
 Temperature Rise  
 ..... 15 °C typ. at rated I rms  
 Packaging..... 500 pcs. per reel

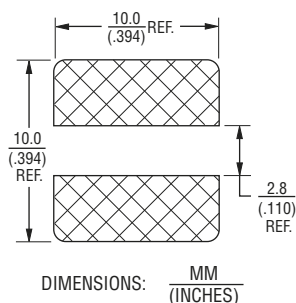
### Product Dimensions



### Inductance vs. Current



### Recommended Layout



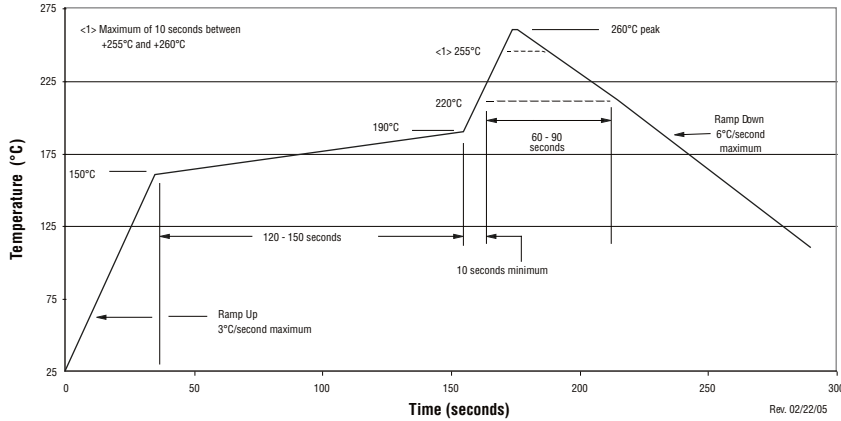
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* 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](http://www.bourns.com/docs/legal/disclaimer.pdf)

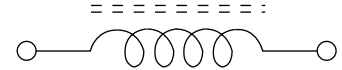
# PM105SB Series - Shielded SMD Power Inductor

**BOURNS®**

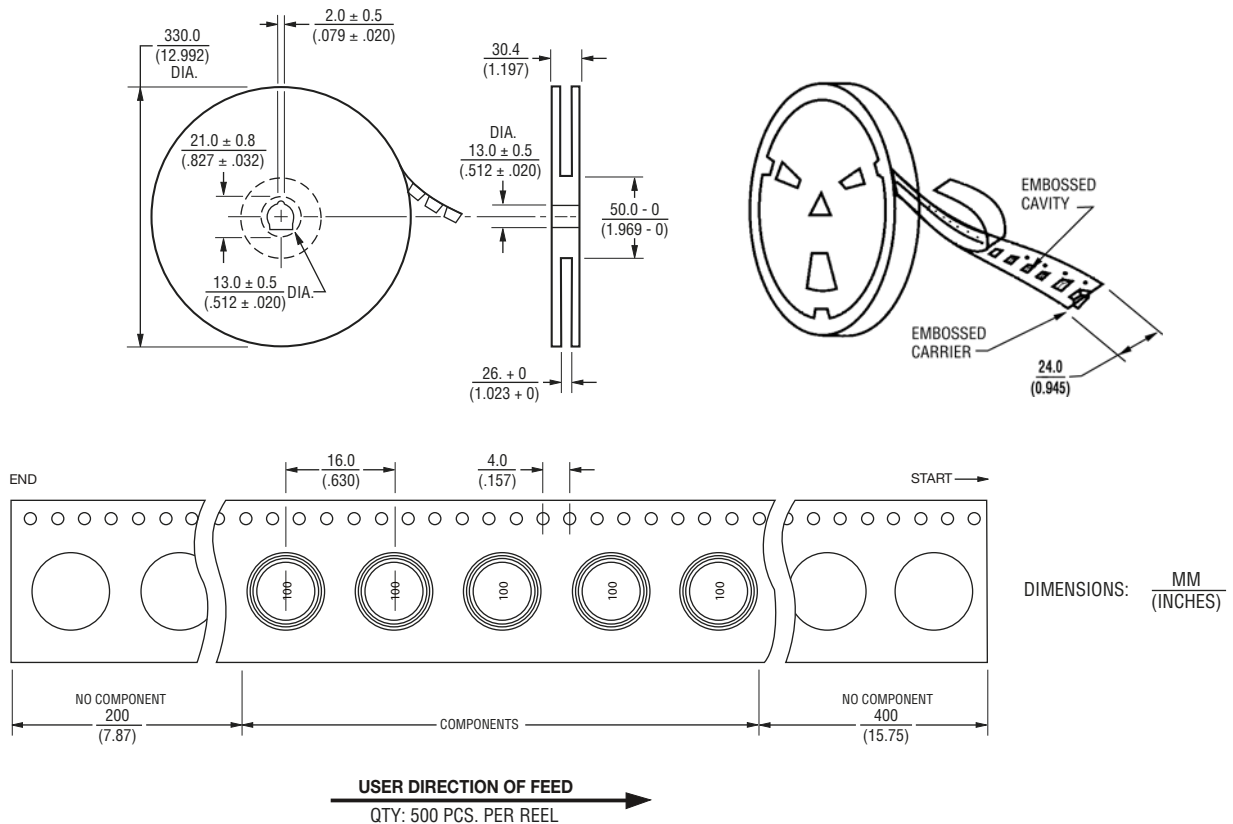
## Soldering Profile



## Electrical Schematic



## Packaging Specifications



REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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