



### Features

- Formerly *JW.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
  - Car radios

**BOURNS®**

## 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

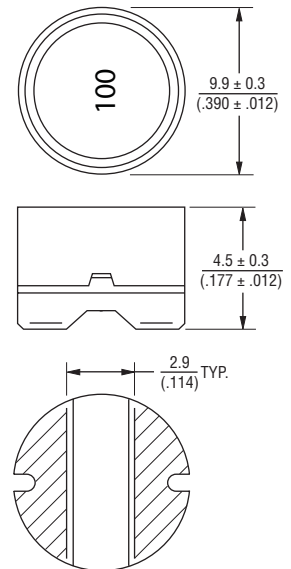
### General Specifications

Test Voltage ..... 1 Volt  
 Reflow Soldering .... 230 °C; 50 sec max.  
 Operating Temperature  
 ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature  
 ..... -40 °C to +125 °C  
 Resistance to Soldering Heat  
 ..... 260 °C for 5 sec.

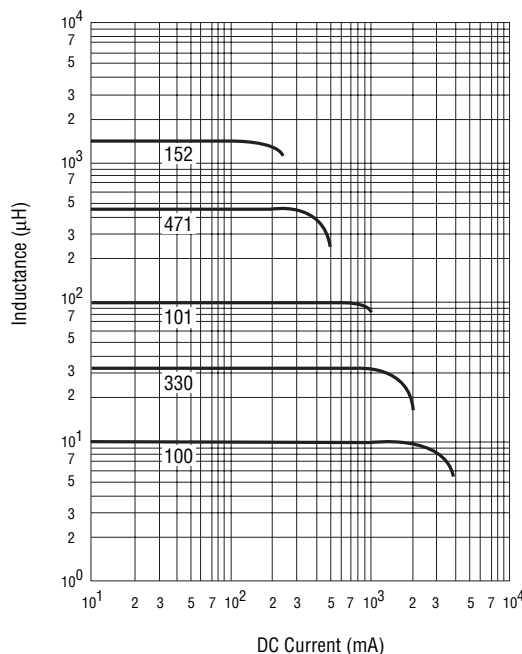
### Materials

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

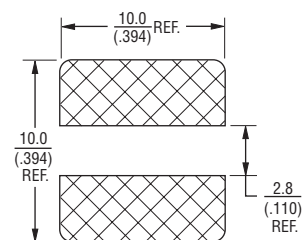
### Product Dimensions



### Inductance vs. Current



### Recommended Layout



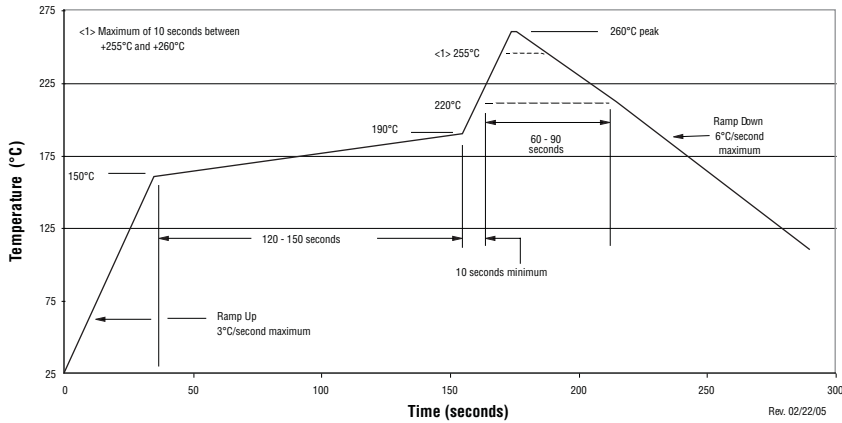
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications

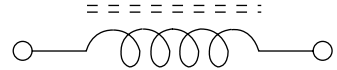
# PM105SB Series - Shielded SMD Power Inductor



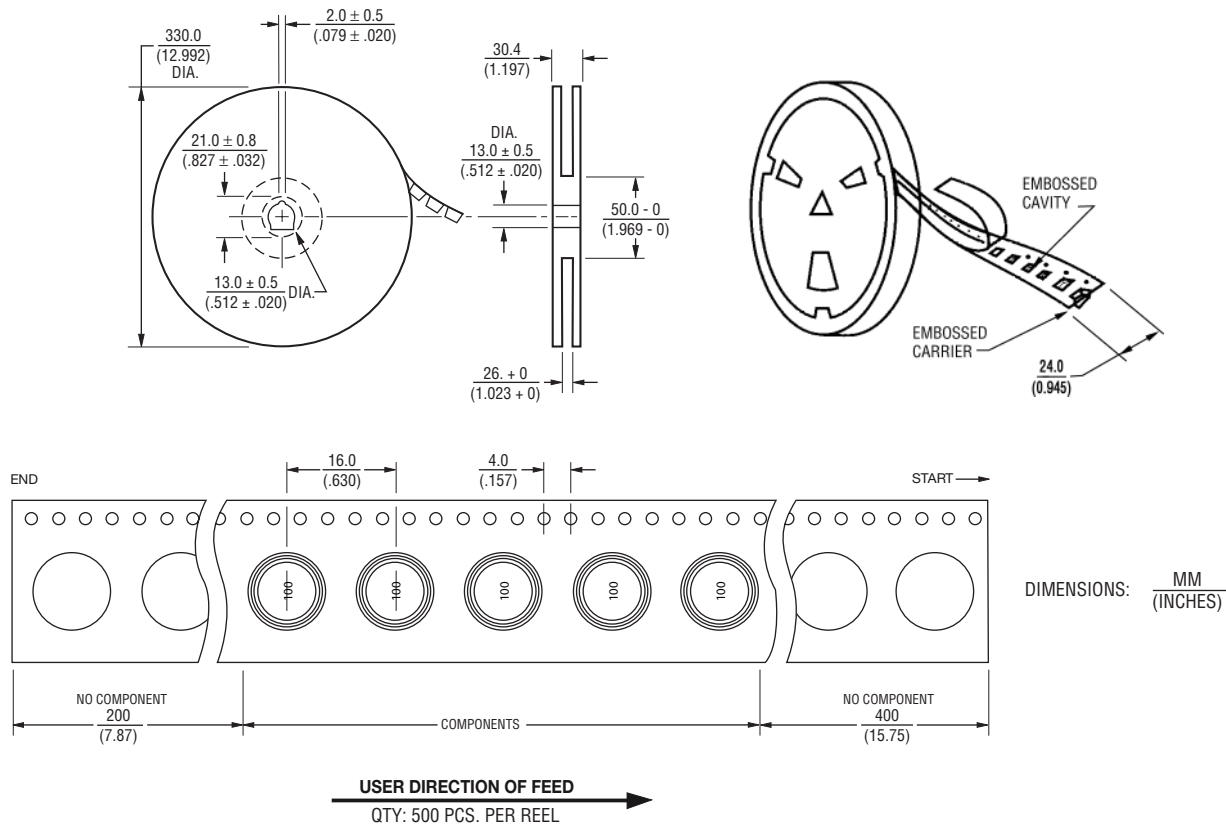
## Soldering Profile



## Electrical Schematic



## Packaging Specifications



REV. 05/09

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