



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

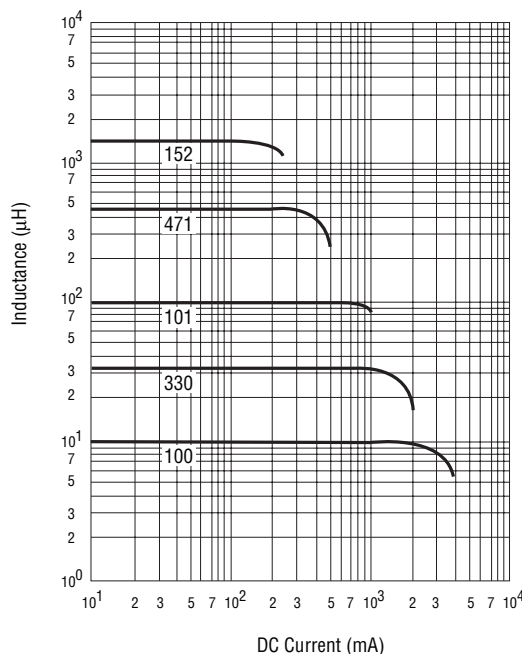
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

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

Inductance vs. Current



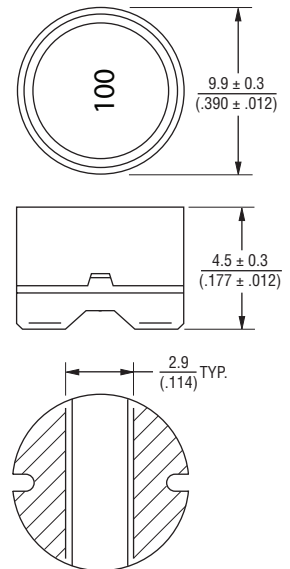
General Specifications

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

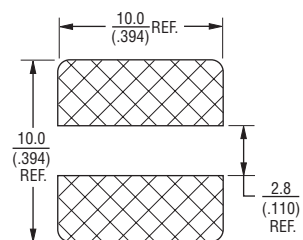
Materials

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



Recommended Layout



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

*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.

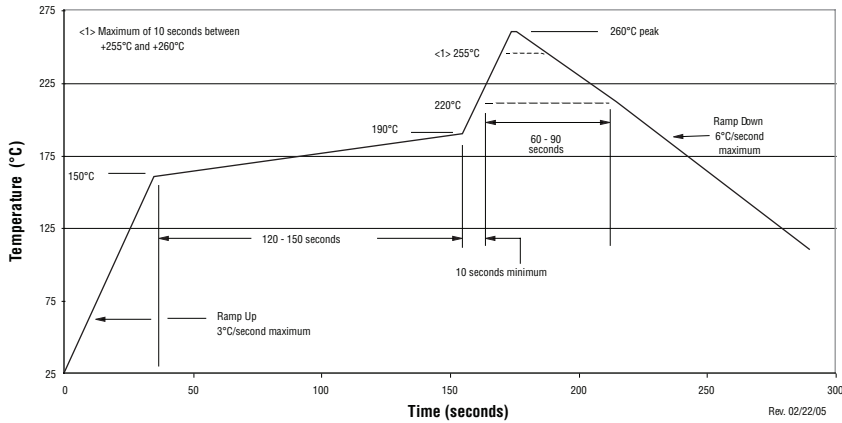
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

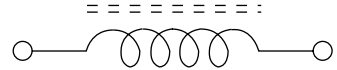
PM105SB Series - Shielded SMD Power Inductor

BOURNS®

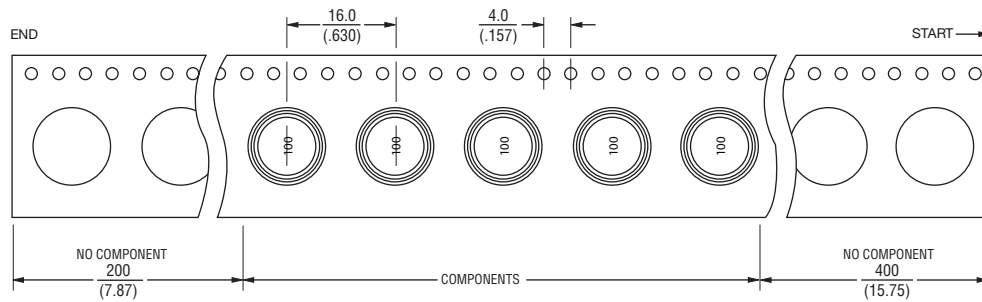
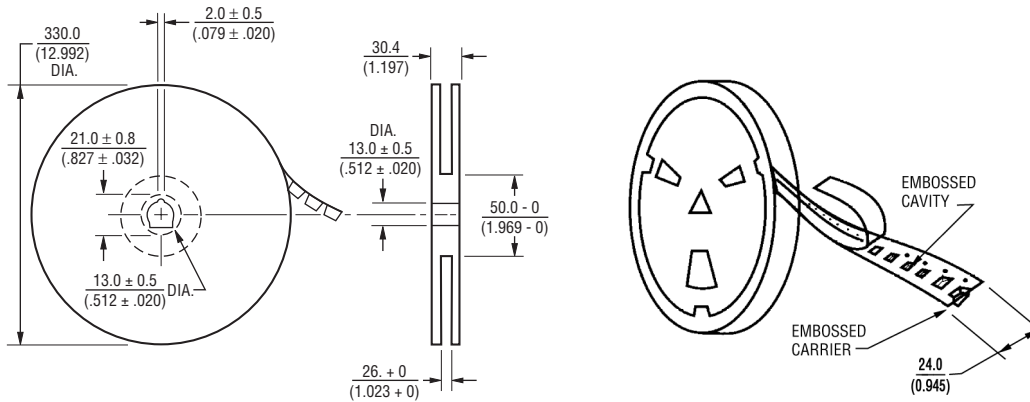
Soldering Profile



Electrical Schematic



Packaging Specifications



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

USER DIRECTION OF FEED
 QTY: 500 PCS. PER REEL

REV. 03/18

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