



Features

- Formerly J.W. Miller® model
- Height of 4.5 mm
- Current rating up to 1.65 A
- RoHS compliant*

Applications

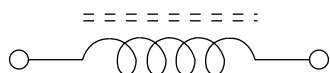
- Input/output of DC/DC converters
- Industrial electronics
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

PM74SB Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 KHz		Test Frequency (MHz)	SRF MHz Typ.	DCR Max. (Ω)	Idc (A)	Isat (A)
	(μH)	Tol. (%)					
PM74SB-100M-RC	10	±20	2.52	26	0.07	1.65	2.00
PM74SB-120M-RC	12	±20	2.52	25	0.07	1.57	1.90
PM74SB-150M-RC	15	±20	2.52	20	0.08	1.39	1.68
PM74SB-180M-RC	18	±20	2.52	19	0.10	1.29	1.55
PM74SB-220M-RC	22	±20	2.52	18	0.13	1.12	1.47
PM74SB-270M-RC	27	±20	2.52	16	0.16	1.06	1.35
PM74SB-330L-RC	33	±15	2.52	15	0.18	0.97	1.16
PM74SB-390L-RC	39	±15	2.52	14	0.18	0.91	1.10
PM74SB-470L-RC	47	±15	2.52	12	0.27	0.80	0.95
PM74SB-560L-RC	56	±15	2.52	11	0.29	0.76	0.89
PM74SB-680L-RC	68	±15	2.52	10	0.33	0.68	0.76
PM74SB-820L-RC	82	±15	2.52	9	0.43	0.62	0.72
PM74SB-101K-RC	100	±10	1.00	8	0.49	0.55	0.64
PM74SB-121K-RC	120	±10	1.00	7	0.68	0.49	0.63
PM74SB-151K-RC	150	±10	1.00	6	0.94	0.44	0.56
PM74SB-181K-RC	180	±10	1.00	5	1.00	0.40	0.52
PM74SB-221K-RC	220	±10	1.00	5	1.18	0.36	0.55
PM74SB-271K-RC	270	±10	1.00	4	1.30	0.33	0.53

Electrical Schematic



Typical Part Marking



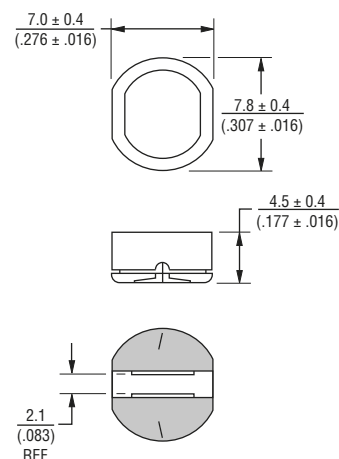
General Specifications

Test Voltage 0.1 V
 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, 10 sec. max.
 Moisture Sensitivity Level..... 2
 ESD Classification (HBM)..... N/A

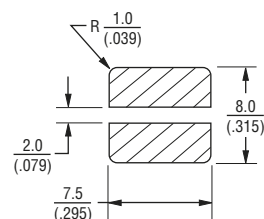
Materials

Core..... Ferrite
 Wire..... Enameled copper
 Adhesive..... Epoxy resin
 Terminal..... Sn/Cu
 Rated Current
 Ind. drop 10 % typ. at Isat
 Temperature Rise 40 °C typical at Idc
 Packaging..... 1000 pcs. per reel

Product Dimensions



Recommended Pad Layout



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



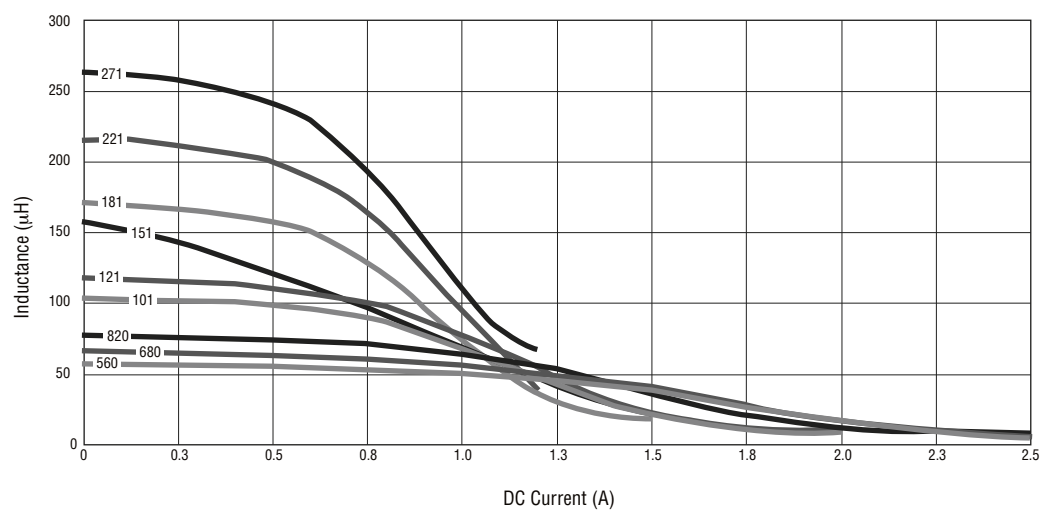
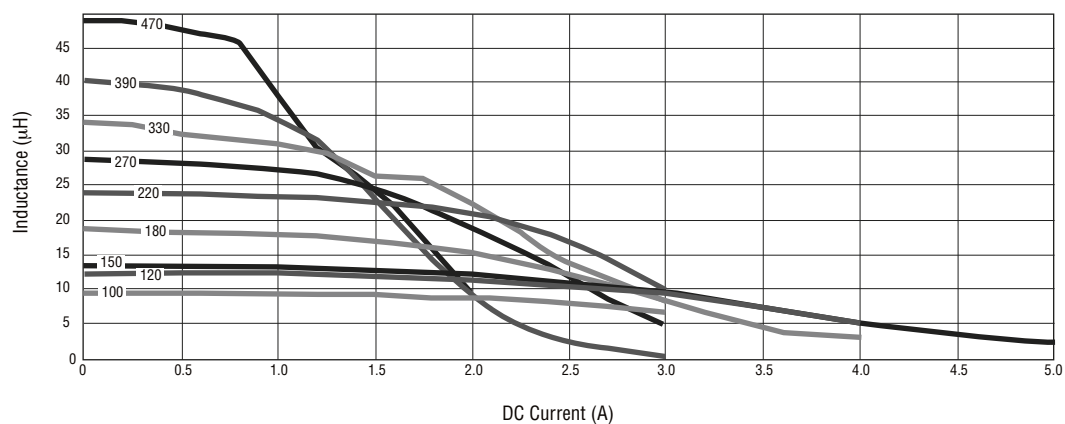
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*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

PM74SB Series - Shielded SMD Power Inductors

BOURNS®

Inductance vs. Current



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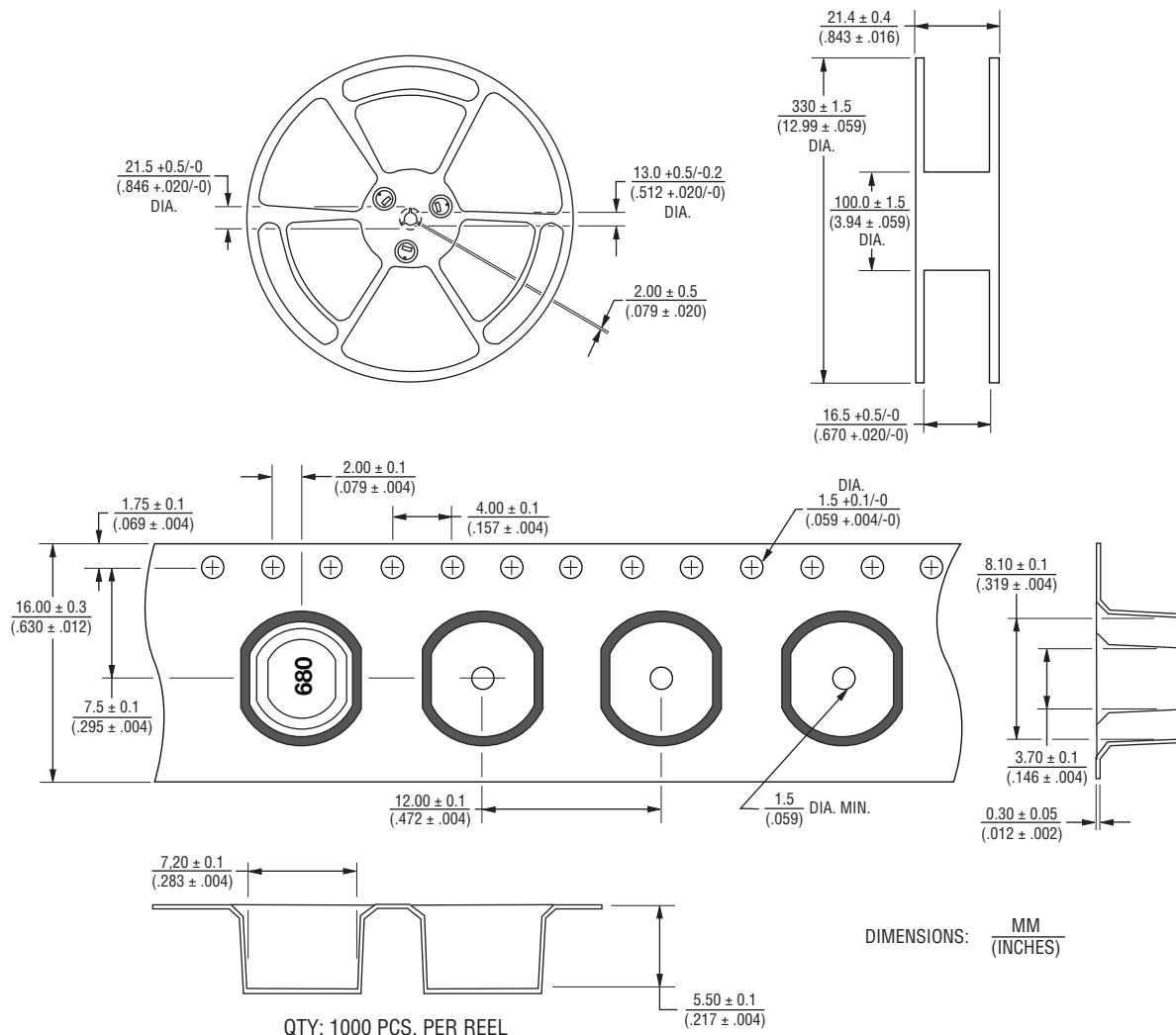
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PM74SB Series - Shielded SMD Power Inductors

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Packaging Specifications



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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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