



Features

- Formerly J. W. Miller® model
- Available in E6 values
- Current rating to 2.78 amps
- RoHS compliant*

Applications

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

PM74SH Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM74SH-2R7M-RC	2.7	± 20	10	7.96	60	0.027	2.78	3.10
PM74SH-3R9M-RC	3.9	± 20	10	7.96	40	0.028	2.71	2.43
PM74SH-4R7M-RC	4.7	± 20	10	7.96	35	0.030	2.64	2.20
PM74SH-5R6M-RC	5.6	± 20	10	7.96	33	0.036	2.38	2.00
PM74SH-6R3M-RC	6.3	± 20	10	7.96	30	0.038	2.33	1.85
PM74SH-100M-RC	10	± 20	30	2.52	25	0.042	2.00	1.70
PM74SH-120M-RC	12	±20	27	2.52	23	0.050	1.85	1.40
PM74SH-150M-RC	15	± 20	31	2.52	24	0.062	1.60	1.35
PM74SH-180M-RC	18	±20	29	2.52	21	0.070	1.50	1.15
PM74SH-220M-RC	22	± 20	26	2.52	18	0.082	1.35	1.10
PM74SH-270M-RC	27	±20	25	2.52	18	0.110	1.25	1.00
PM74SH-330M-RC	33	± 20	25	2.52	12	0.115	1.15	0.90
PM74SH-390M-RC	39	±20	26	2.52	13	0.130	1.10	0.80
PM74SH-470M-RC	47	± 20	29	2.52	11	0.150	0.95	0.78
PM74SH-560M-RC	56	±20	21	2.52	11	0.200	0.85	0.65
PM74SH-680M-RC	68	± 20	22	2.52	10	0.210	0.77	0.60
PM74SH-820M-RC	82	± 20	22	2.52	9	0.280	0.70	0.60
PM74SH-101M-RC	100	± 20	40	0.796	8	0.300	0.65	0.50
PM74SH-121M-RC	120	±20	30	0.796	7	0.420	0.60	0.45
PM74SH-151M-RC	150	± 20	51	0.796	7	0.480	0.53	0.41
PM74SH-181M-RC	180	±20	52	0.796	5	0.660	0.475	0.375
PM74SH-221M-RC	220	± 20	44	0.796	5	0.700	0.45	0.36
PM74SH-271M-RC	270	±20	30	0.796	5	0.840	0.40	0.275
PM74SH-331M-RC	330	± 20	65	0.796	4	0.730	0.40	0.25
PM74SH-391M-RC	390	±20	27	0.796	5	1.200	0.35	0.225
PM74SH-471M-RC	470	± 20	80	0.796	3	1.100	0.32	0.22
PM74SH-561M-RC	560	±20	27	0.796	4	1.600	0.30	0.20
PM74SH-681M-RC	680	± 20	65	0.796	3	1.600	0.27	0.20
PM74SH-821M-RC	820	±20	26	0.796	3	2.200	0.25	0.175
PM74SH-102M-RC	1000	± 20	90	0.252	3	2.400	0.25	0.15

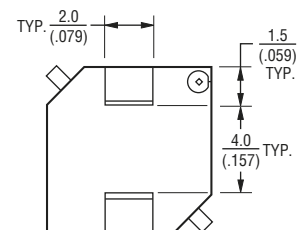
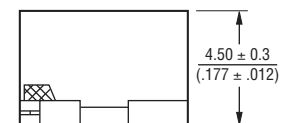
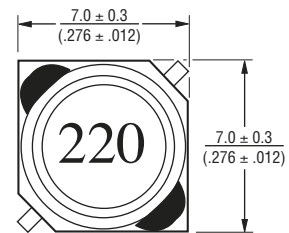
General Specifications

Test Voltage0.5 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 for 10 sec.
 Moisture Sensitivity Level 2
 ESD Classification (HBM)..... N/A

Materials

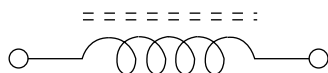
Core Ferrite DR and RI
 Wire Enameled copper wire 130
 Terminal Cu/Ni/Sn
 Rated Current
 Ind. drop 10 % typ. at Isat
 (-2R7M through -221M)
 Ind. drop 25 % typ. at Isat
 (-271M through -102M)
 Temperature Rise 30 °C max.
 at rated Irms
 Packaging 1000 pcs. per reel

Product Dimensions

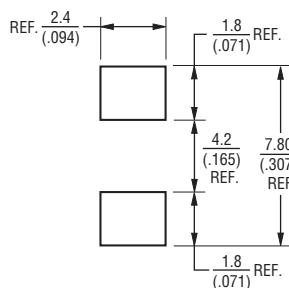


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Schematic



Recommended Layout



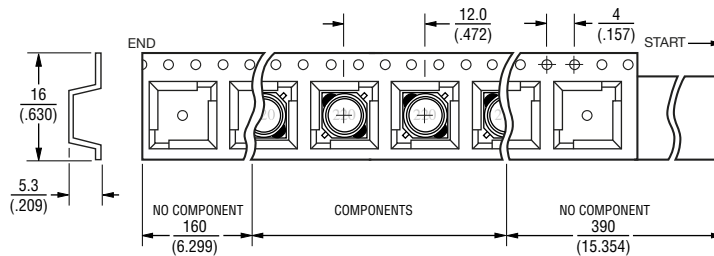
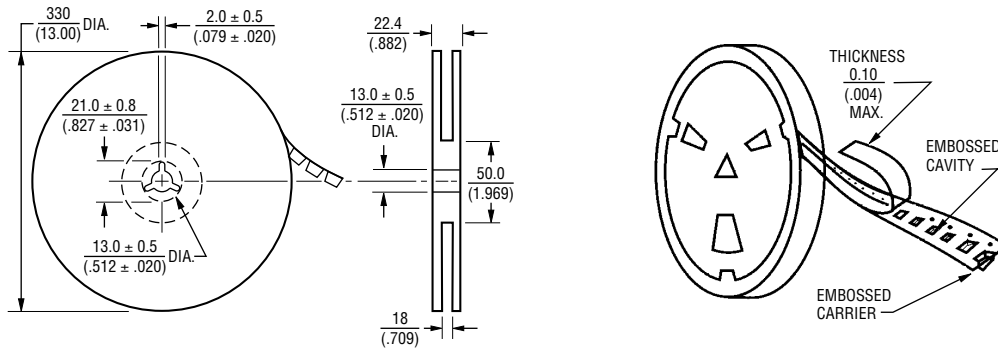
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*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.

PM74SH Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED →

QTY: 1000 PCS. PER REEL

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

REV. 03/18

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Users should verify actual device performance in their specific applications.

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