



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

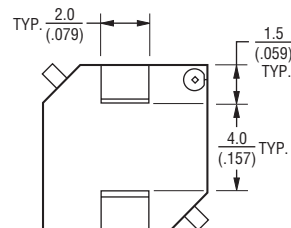
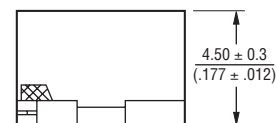
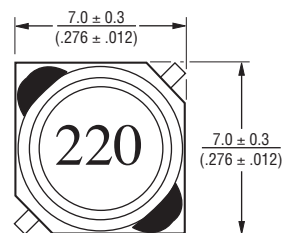
General Specifications

Test Voltage 0.5 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

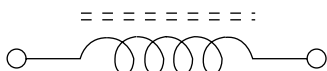
Core Ferrite DR and RI
 Wire Enamelled copper wire 130
 Terminal Cu/Ni/Sn
 Rated Current
 Ind. drop 10 % typ. at Isat
 (-2R7M through -221M)
 Ind. drop 25 % typ. at Isat
 (-271M through -102M)
 Temperature Rise 30 °C max.
 at rated I rms
 Packaging 1000 pcs. per reel

Product Dimensions

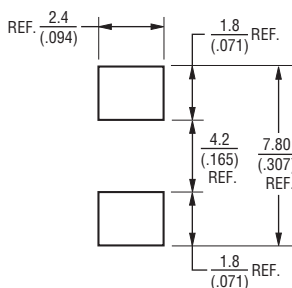


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Schematic



Recommended Layout



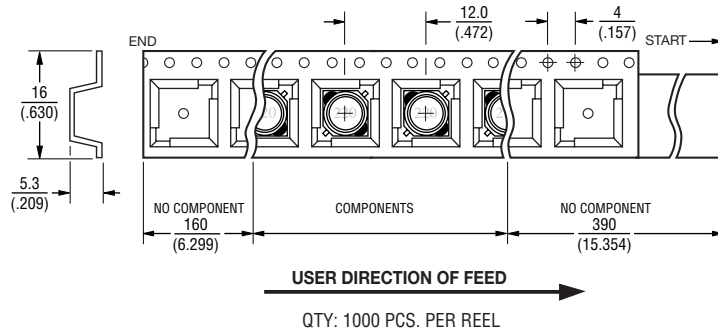
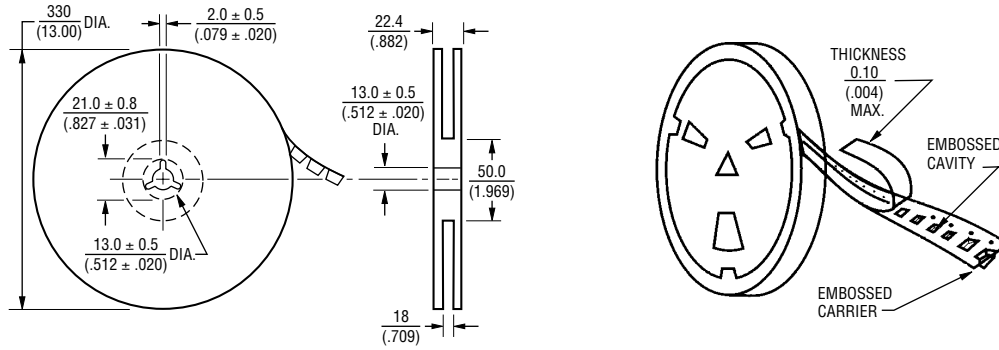
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.

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.

PM74SH Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



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

REV. 03/18

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.