

Features

- Formerly J.W. Miller[®] model
- Available in E6 values
- Current rating to 3.50 amps
- RoHS compliant*

Applications

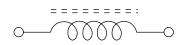
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - · Camcorders
 - LCD TVs

PM74SH Series - Shielded SMD Power Inductors

Electrical Specifications

	Inductance 1 KHz			Test	SRF	RDC	l rms	l sat
			Q	Frequency	Тур.	Max.	Max.	Тур.
Bourns Part No.	uH	Tol. %	Тур.	(MHz)	(MHz)	(Ω)	(A)	(A)
PM74SH-2R7M-RC	2.7	±20	10	7.96	60	0.027	3.50	3.50
PM74SH-3R9M-RC	3.9	±20	12	7.96	75	0.030	3.40	3.20
PM74SH-4R7M-RC	4.7	±20	12	7.96	60	0.033	3.30	2.80
PM74SH-5R6M-RC	5.6	±20	12	7.96	50	0.035	3.20	2.50
PM74SH-6R3M-RC	6.3	±20	10	7.96	30	0.038	2.45	3.00
PM74SH-100M-RC	10	±20	40	2.52	23	0.048	2.70	1.90
PM74SH-120M-RC	12	±20	40	2.52	20	0.054	2.40	1.80
PM74SH-150M-RC	15	±20	40	2.52	17	0.062	2.20	1.50
PM74SH-180M-RC	18	±20	40	2.52	16	0.070	2.10	1.40
PM74SH-220M-RC	22	±20	40	2.52	15	0.082	1.90	1.30
PM74SH-270M-RC	27	±20	30	2.52	13.5	0.100	1.80	1.15
PM74SH-330M-RC	33	±20	30	2.52	11	0.115	1.60	1.00
PM74SH-390M-RC	39	±20	30	2.52	10.5	0.130	1.50	0.95
PM74SH-470M-RC	47	±20	30	2.52	10	0.160	1.40	0.90
PM74SH-560M-RC	56	±20	25	2.52	9	0.180	1.30	0.80
PM74SH-680M-RC	68	±20	25	2.52	8.5	0.210	1.20	0.75
PM74SH-820M-RC	82	±20	25	2.52	6.5	0.270	1.10	0.65
PM74SH-101M-RC	100	±20	40	0.796	6	0.300	1.00	0.60
PM74SH-121M-RC	120	±20	40	0.796	5.5	0.380	0.90	0.55
PM74SH-151M-RC	150	±20	40	0.796	5	0.460	0.80	0.50
PM74SH-181M-RC	180	±20	40	0.796	4.7	0.600	0.66	0.45
PM74SH-221M-RC	220	±20	40	0.796	4.5	0.690	0.64	0.40
PM74SH-271M-RC	270	±20	40	0.796	4	0.600	0.62	0.30
PM74SH-331M-RC	330	±20	40	0.796	3.8	0.730	0.60	0.27
PM74SH-391M-RC	390	±20	50	0.796	3.6	1.000	0.54	0.25
PM74SH-471M-RC	470	±20	50	0.796	3.2	1.100	0.50	0.23
PM74SH-561M-RC	560	±20	50	0.796	2.9	1.340	0.45	0.21
PM74SH-681M-RC	680	±20	50	0.796	2.5	1.600	0.40	0.20
PM74SH-821M-RC	820	±20	50	0.796	2.4	1.850	0.37	0.18
PM74SH-102M-RC	1000	±20	90	0.252	2.2	2.370	0.33	0.16

Schematic





* RoHS Directive 2015/863, Mar 31, 2015 and Annex. 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 <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

Recommended Layout

 $\frac{1.8}{(.071)}$ REF.

 $\frac{7.80}{(.307)}$

REF

1.8 (.071) REF.

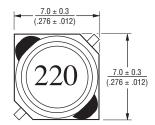
4.2 (.165) REF.

REF. 2.4 (.094)

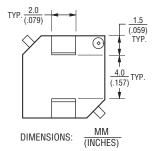
General Specifications

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
Moisture Sensitivity Level1 ESD Classification (HBM)N/A
Materials
Core Ferrite DR & RI Wire Enameled copper wire 130 Terminal Ind. drop of 10 % typ. at Isat (3R9M through -5R6M, -100M through -221M) Ind. drop of 20 % typ. at Isat (2R7M through -6R3M) Ind. drop of 25 % typ. at Isat (-271M through -102M)
Temperature Rise
Product Dimensions

Product Dimensions



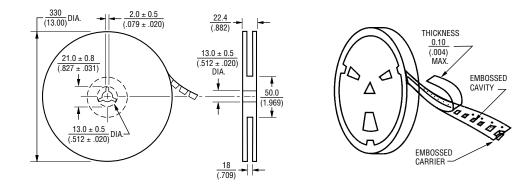


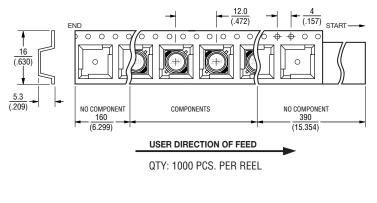


PM74SH Series - Shielded SMD Power Inductors

BOURNS

Packaging Specifications





MM DIMENSIONS: (INCHES)

Specifications are subject to change without notice.

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