

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

Bourns Part No.	Inductance 1 KHz uH	Inductance 1 KHz Tol. %	Q Typ.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC Max. (Ω)	I rms Typ. (A)	I sat Typ. (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	3.00	2.45
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

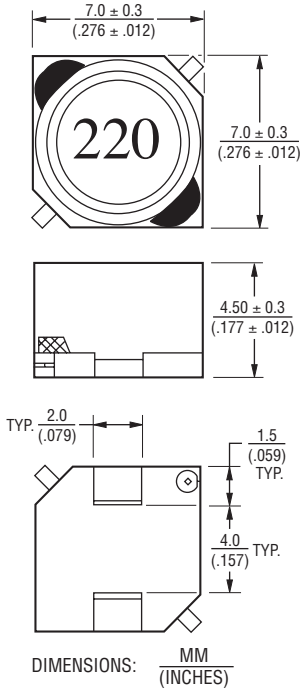
General Specifications

Test Voltage ..... 0.5 V
Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature
..... -40 °C to +125 °C
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

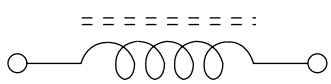
Materials

Core ..... Ferrite DR & RI
Wire ..... Enameled copper wire 130
Terminal Finish ..... Sn
Isat Based On:
..... Ind. drop of 10 % typ. at Isat
(3R9M through -5R6M, -100M through -221M)
..... Ind. drop of 20 % typ. at Isat
(2R7M and -6R3M)
..... Ind. drop of 25 % typ. at Isat
(-271M through -102M)
Temperature Rise
..... 40 °C typ. at rated Irms
Packaging ..... 1000 pcs. per reel

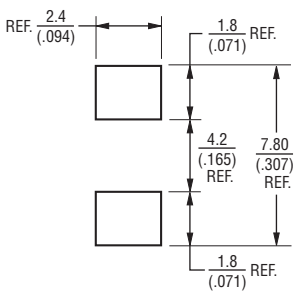
Product Dimensions



Schematic



Recommended Layout



Additional Information

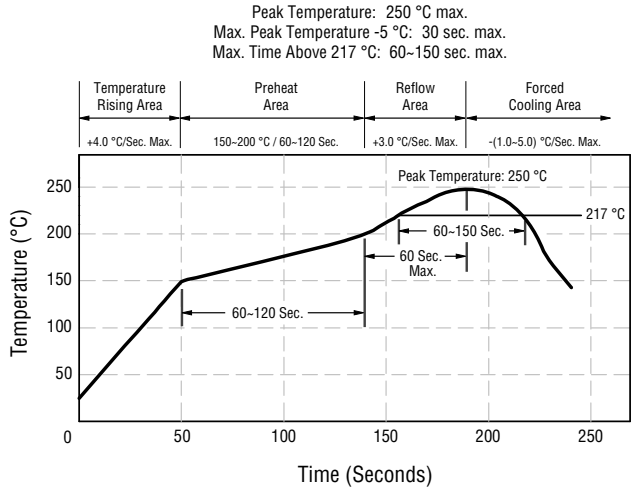
Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

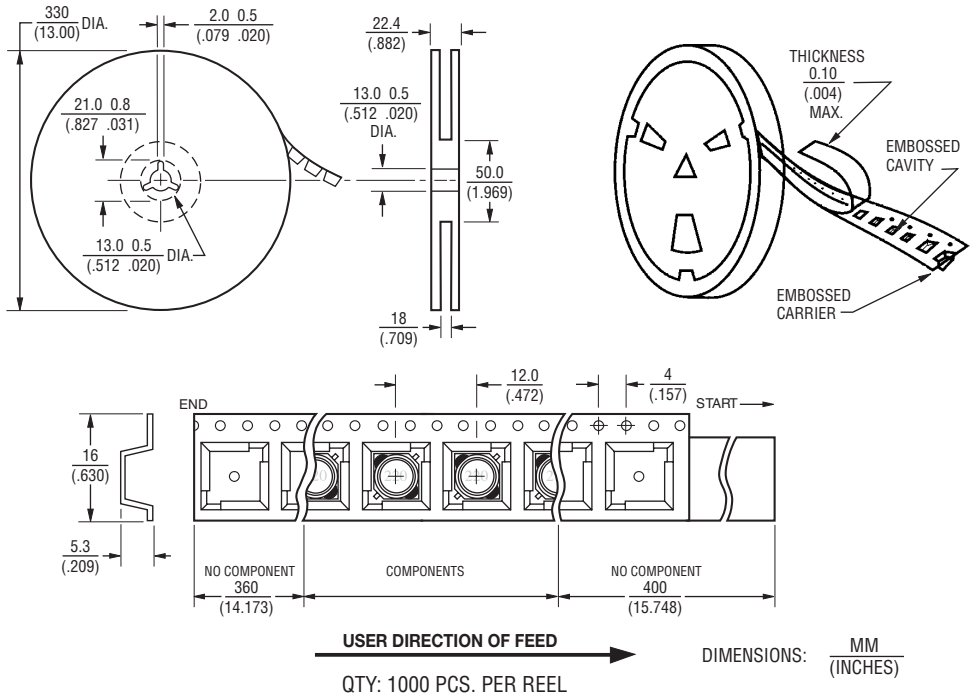
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Users should verify actual device performance in their specific applications.
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Soldering Profile



Packaging Specifications



REV. 04/26

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