



Features

- Formerly J.W. Miller® model
- Height of 2.92 mm
- Current rating up to 2.9 A
- RoHS compliant*

Additional Information

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SAMPLES



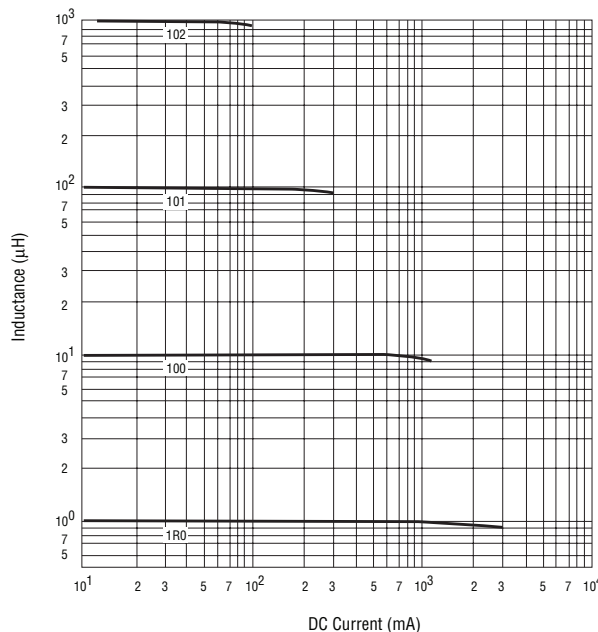
CONTACT

PM1608 Series - SMD Power Inductor

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μ H)	Tol. %						
PM1608-1R0M-RC	1.0	± 20	20	7.96	130	0.05	2.9	2.9
PM1608-1R5M-RC	1.5	± 20	19	7.96	115	0.05	2.8	2.6
PM1608-2R2M-RC	2.2	± 20	18	7.96	90	0.07	2.4	2.3
PM1608-3R3M-RC	3.3	± 20	18.5	7.96	70	0.08	2.0	2.0
PM1608-4R7M-RC	4.7	± 20	17	7.96	50	0.09	1.5	1.5
PM1608-6R8M-RC	6.8	± 20	15.5	7.96	45	0.13	1.4	1.2
PM1608-100M-RC	10	± 20	17	2.52	35	0.16	1.1	1.1
PM1608-150M-RC	15	± 20	17	2.52	30	0.23	1.0	0.90
PM1608-220M-RC	22	± 20	16	2.52	20	0.37	0.80	0.70
PM1608-330M-RC	33	± 20	24	2.52	15	0.51	0.60	0.58
PM1608-470M-RC	47	± 20	15	2.52	14	0.64	0.50	0.50
PM1608-680M-RC	68	± 20	18	2.52	11	0.86	0.40	0.40
PM1608-101M-RC	100	± 20	29	0.796	9	1.3	0.30	0.31
PM1608-151M-RC	150	± 20	41	0.796	6	2.0	0.25	0.27
PM1608-221M-RC	220	± 20	33	0.796	5.5	3.2	0.20	0.22
PM1608-331M-RC	330	± 20	42	0.796	5	3.8	0.16	0.18
PM1608-471M-RC	470	± 20	42	0.796	4	5.1	0.15	0.16
PM1608-681M-RC	680	± 20	58	0.796	3	9.2	0.12	0.14
PM1608-102M-RC	1000	± 20	71	0.252	2	13.8	0.07	0.10

Inductance vs. Current



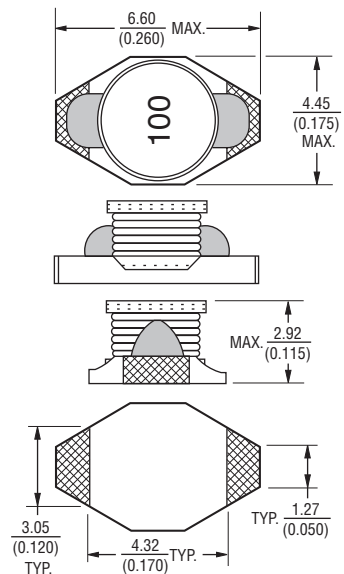
General Specifications

Test Voltage.....0.1 V
 Operating Temp.....-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Moisture Sensitivity Level..... 1
 ESD Classification (HBM)..... N/A

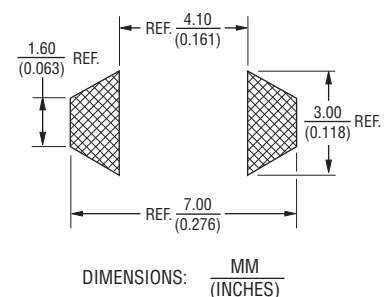
Materials

Core.....Ferrite
 Wire.....Enameled copper
 Base.....Ceramic
 Adhesive.....Epoxy resin
 Terminal.....Ag/Ni/Au
 Rated Current..Ind. drop 10 % typ. at Isat
 Temperature Rise.....15 °C typical
 at rated I rms
 Packaging.....600 pcs. per reel

Product Dimensions



Recommended Layout



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



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

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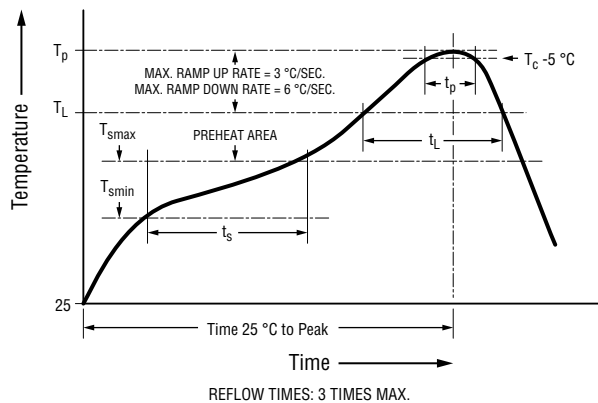
Applications

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

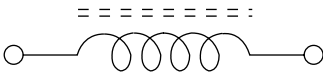
PM1608 Series - SMD Power Inductor

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Soldering Profile



Electrical Schematic



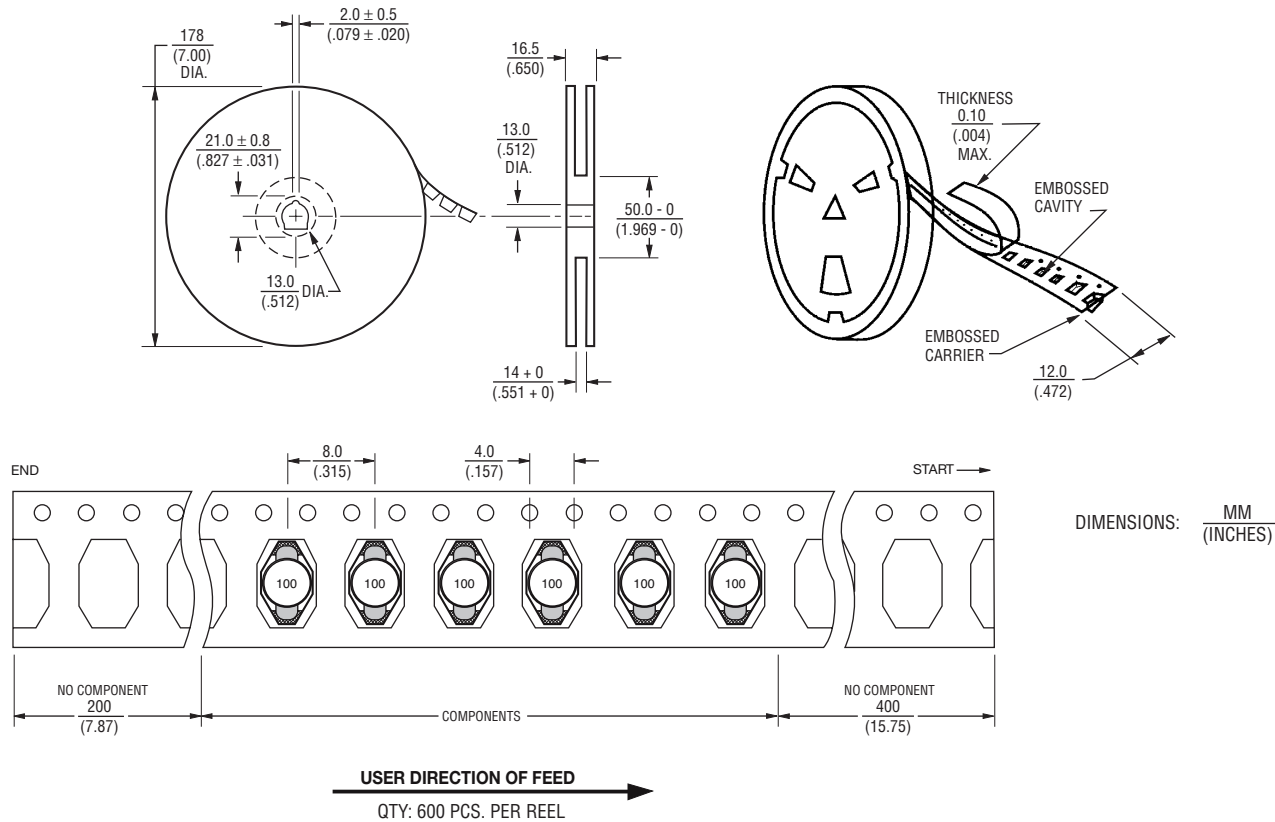
Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Classification temperature (T_c)	250 °C
Time (t_p) at $T_c - 5\text{ °C}$ (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Refer to IPC/JEDEC J-STD-020E.

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Packaging Specifications



REV. 03/26

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