

Features

- Formerly J.W. Miller® model
- Available in E12 series
- Unit height of 3 mm
- Current up to 3 A
- RoHS compliant*

Applications

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

PM1608S Series - Shielded Power Inductor

Electrical Specifications

Bourns Part No.	Inductance 100 kHz (µH)	Tol. %	Q Min.	Test Frequency (kHz) Q	SRF Nom. (MHz)	RDC Max. (Ω)	IDC Max. (A)
PM1608S-1R0M-RC	1.0	± 20	10	100	250	0.040	3.00
PM1608S-1R5M-RC	1.5	± 20	20	100	125	0.045	2.80
PM1608S-2R2M-RC	2.2	± 20	25	100	120	0.050	1.80
PM1608S-3R3M-RC	3.3	± 20	40	100	120	0.055	1.60
PM1608S-4R7M-RC	4.7	± 20	40	100	105	0.060	1.40
PM1608S-6R8M-RC	6.8	± 20	40	100	50	0.065	1.20
PM1608S-100M-RC	10	± 20	40	100	38	0.075	1.00
PM1608S-150M-RC	15	± 20	40	100	33	0.090	0.80
PM1608S-220M-RC	22	± 20	40	100	25	0.110	0.70
PM1608S-330M-RC	33	± 20	40	100	20	0.190	0.60
PM1608S-470M-RC	47	± 20	40	100	20	0.230	0.50
PM1608S-680M-RC	68	± 20	40	100	15	0.290	0.40
PM1608S-101M-RC	100	± 20	40	100	10	0.480	0.30
PM1608S-151M-RC	150	± 20	40	100	9	0.590	0.26
PM1608S-221M-RC	220	± 20	40	100	6	0.770	0.22
PM1608S-331M-RC	330	± 20	40	100	5	1.400	0.20
PM1608S-471M-RC	470	± 20	40	100	4	1.800	0.19
PM1608S-681M-RC	680	± 20	40	100	3.5	2.200	0.18
PM1608S-102M-RC	1000	± 20	40	100	3	3.400	0.15
PM1608S-152M-RC	1500	± 20	50	100	2	4.200	0.12
PM1608S-222M-RC	2200	± 20	50	100	2	8.500	0.10
PM1608S-332M-RC	3300	± 20	50	100	1	11.000	0.08
PM1608S-472M-RC	4700	± 20	50	100	1	13.900	0.06
PM1608S-682M-RC	6800	± 20	50	100	1	25.000	0.04
PM1608S-103M-RC	10,000	± 20	50	100	0.8	32.800	0.02

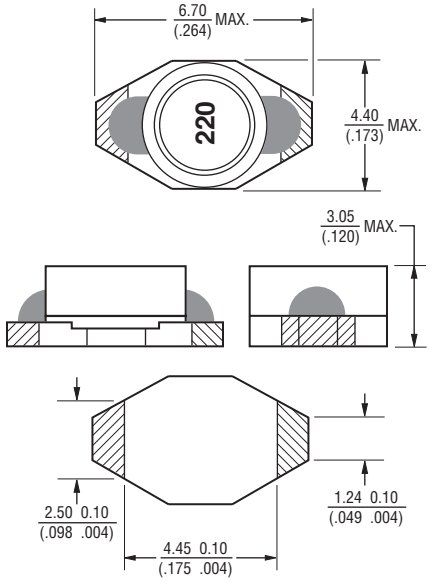
General Specifications

Test Voltage ..... 0.1 V
Operating Temp. ..... -55 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -55 °C to +125 °C
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

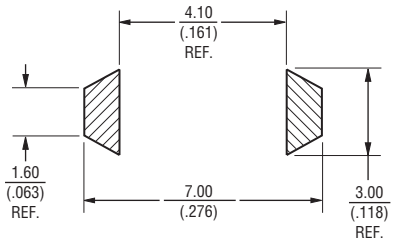
Materials

Core ..... Ferrite DR & RI core
Wire ..... Enameled copper
Base ..... Ceramic
Terminal ..... Ag/Ni/Au
Temp. Rise ..... 30 °C max. at rated Irms
Packaging ..... 600 pcs. per reel

Product Dimensions



Recommended Layout



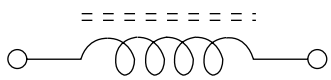
DIMENSIONS: MM (INCHES)

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Schematic

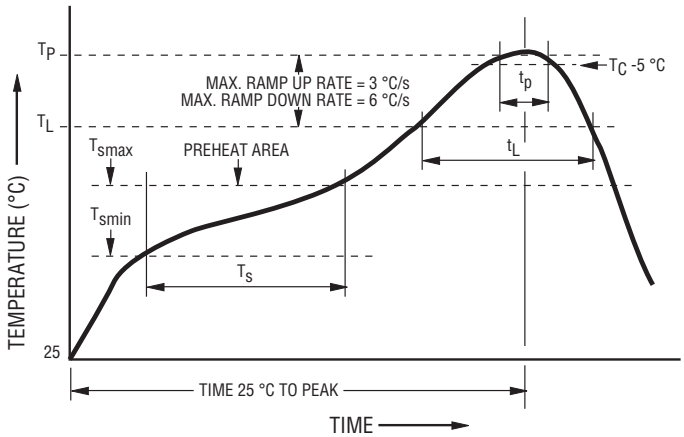


CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

*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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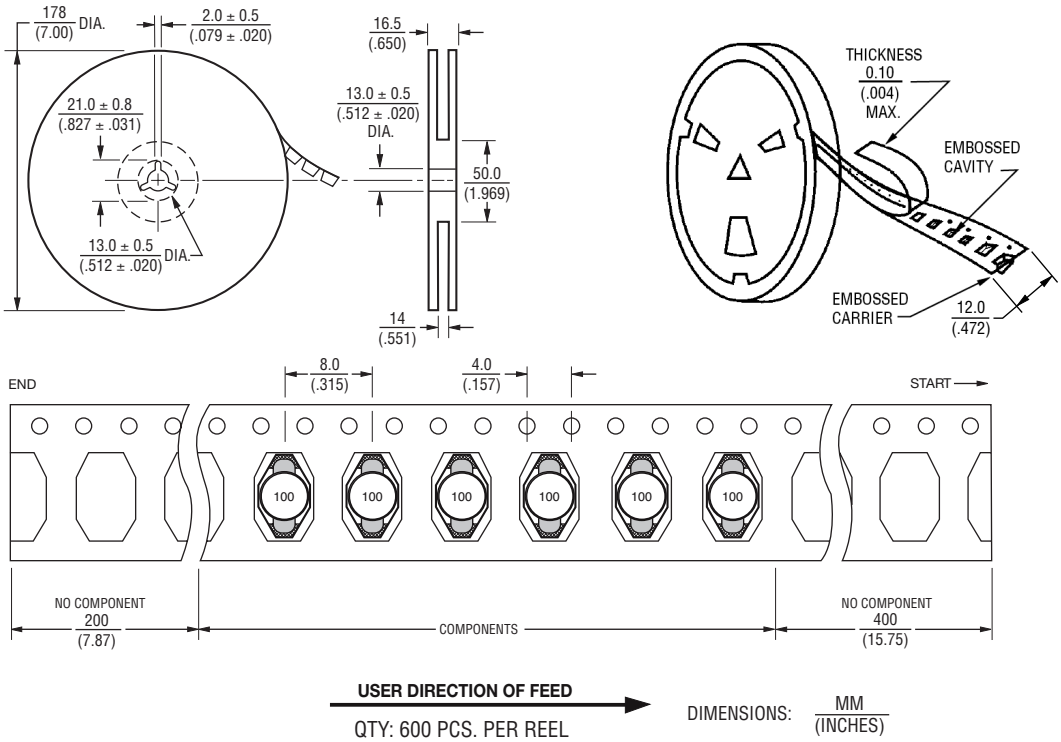
Soldering Profile



Profile Feature	Pb-Free Assembly
Preheat / Soak: 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) within 5 °C of the specified classification temperature (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.

NOTE: The product has been tested under this reflow condition. Deviations from this, especially higher temperatures or longer durations, could impact performance.

Packaging Specifications



REV. 08/26

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