



## Features

- Formerly *JW.Miller* model
- Height of 2.92 mm
- Current rating up to 2.9 A
- RoHS compliant\*

## Applications

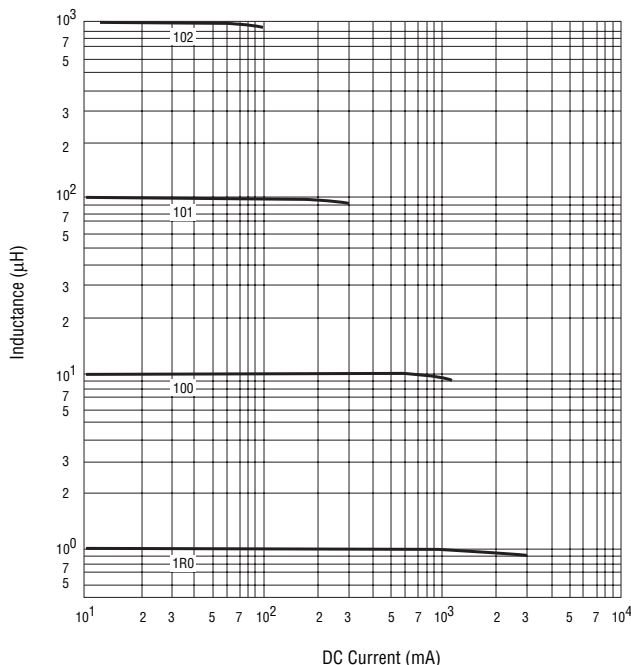
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

# PM1608 Series - SMD Power Inductor

### Electrical Specifications

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

### Inductance vs. Current



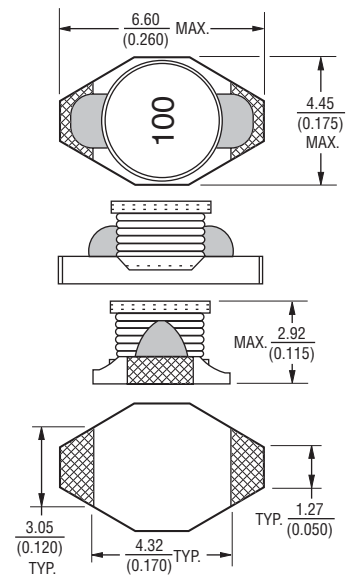
### General Specifications

Test Voltage ..... 0.1 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, 10 sec. max.

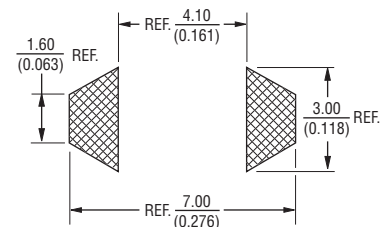
### Materials

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

### Product Dimensions



### Recommended Layout



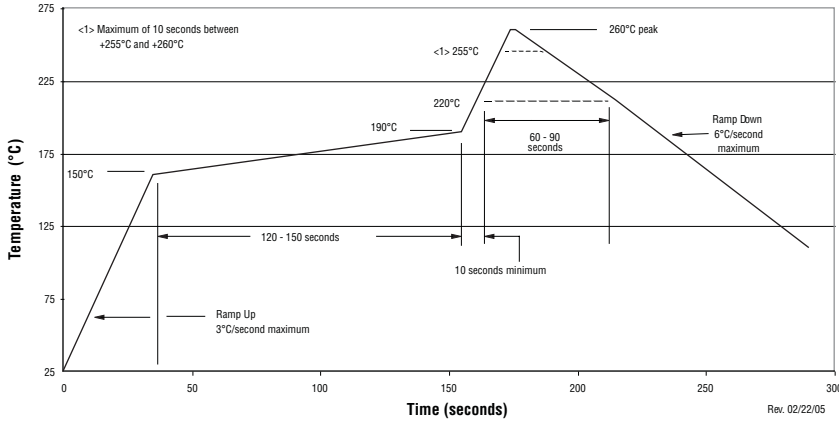
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications

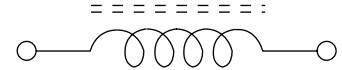
# PM1608 Series - SMD Power Inductor

**BOURNS®**

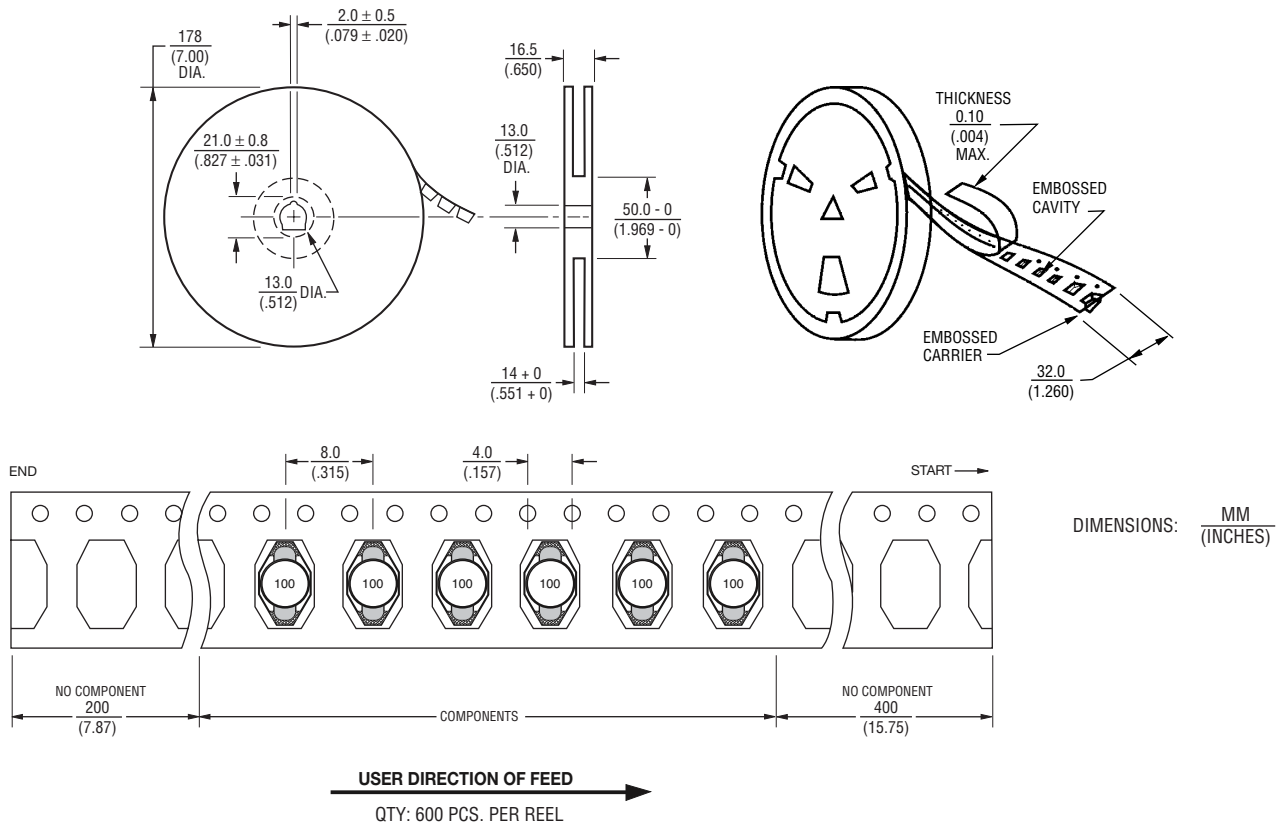
## Soldering Profile



## Electrical Schematic



## Packaging Specifications



REV. 05/09

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