





## Features

- Formerly a J. W. Miller® model
- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic surface mounting
- Inductance range: 1 to 150 µH
- RoHS compliant\*

## Applications

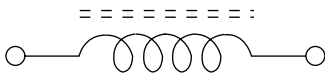
- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

## PM1210 Series - Chip Inductor

### Electrical Specifications @25 °C

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (Ω)	IDC (mA)
	µH	Tol. (%)					
PM1210-1R0J-RC	1	± 5	30	7.96	295	0.7	400
PM1210-1R2J-RC	1.2	± 5	30	7.96	255	0.75	390
PM1210-1R5J-RC	1.5	± 5	30	7.96	160	0.85	370
PM1210-1R8J-RC	1.8	± 5	30	7.96	125	0.9	350
PM1210-2R2J-RC	2.2	± 5	30	7.96	100	1	320
PM1210-2R7J-RC	2.7	± 5	30	7.96	65	1.1	290
PM1210-3R3J-RC	3.3	± 5	30	7.96	55	1.2	260
PM1210-3R9J-RC	3.9	± 5	30	7.96	50	1.3	250
PM1210-4R7J-RC	4.7	± 5	30	7.96	45	1.5	220
PM1210-5R6J-RC	5.6	± 5	30	7.96	40	1.6	200
PM1210-6R8J-RC	6.8	± 5	30	7.96	35	1.8	180
PM1210-8R2J-RC	8.2	± 5	30	7.96	30	2	170
PM1210-100J-RC	10	± 5	30	2.52	30	2.1	150
PM1210-120J-RC	12	± 5	30	2.52	28	2.5	140
PM1210-150J-RC	15	± 5	30	2.52	25	2.8	130
PM1210-180J-RC	18	± 5	30	2.52	22	3.3	120
PM1210-220J-RC	22	± 5	30	2.52	19	3.7	110
PM1210-270J-RC	27	± 5	30	2.52	18	5	80
PM1210-330J-RC	33	± 5	30	2.52	17	5.6	70
PM1210-390J-RC	39	± 5	30	2.52	15	6.4	65
PM1210-470J-RC	47	± 5	30	2.52	14	7	60
PM1210-560J-RC	56	± 5	30	2.52	13	8	55
PM1210-680J-RC	68	± 5	30	2.52	11	9	50
PM1210-820J-RC	82	± 5	30	2.52	10	10	45
PM1210-101J-RC	100	± 5	20	0.796	9	11	40
PM1210-121J-RC	120	± 5	20	0.796	8	11	70
PM1210-151J-RC	150	± 5	20	0.796	7	15	65

### Schematic



### Additional Information

Click these links for more information:



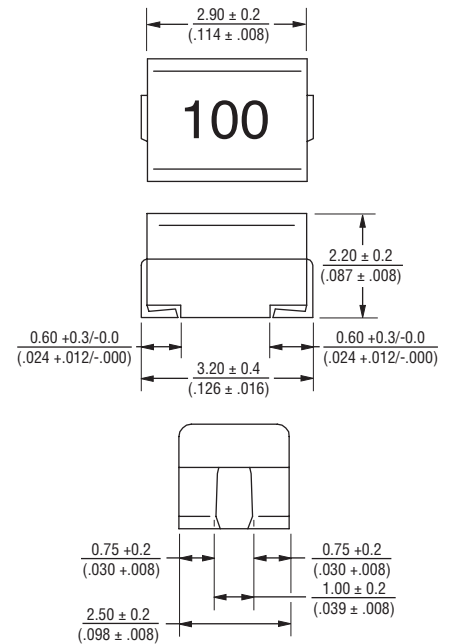
### General Specifications

Operating Temperature .....-40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .....-40 °C to +125 °C  
 Temperature Rise ..... 20 °C  
 Rated Current.... Inductance drops 10 %

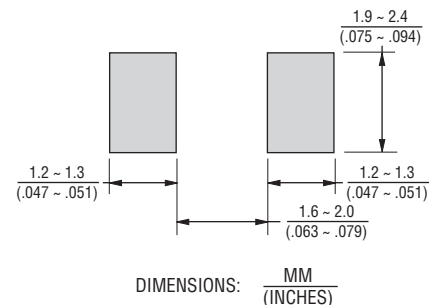
### Materials

Core.....Ferrite  
 Wire.....Enamelled copper  
 Enclosure.....Epoxy resin  
 Terminal Finish .....Sn  
 Packaging..... 2,000 pcs. per 7-inch reel

### Product Dimensions



### Recommended Layout



**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant.  
 See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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.

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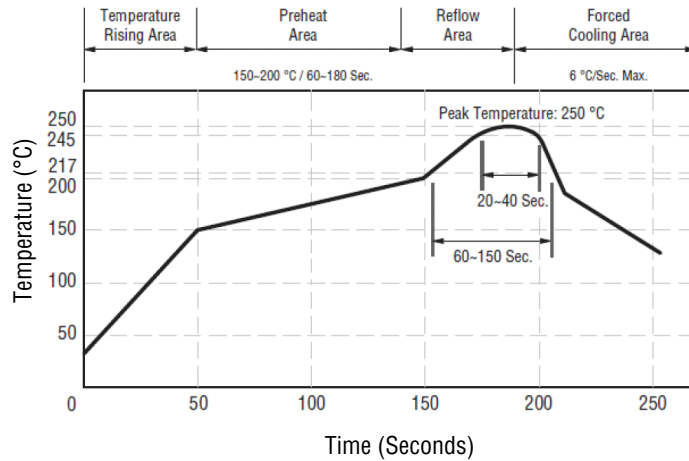
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

# PM1210 Series - Chip Inductor

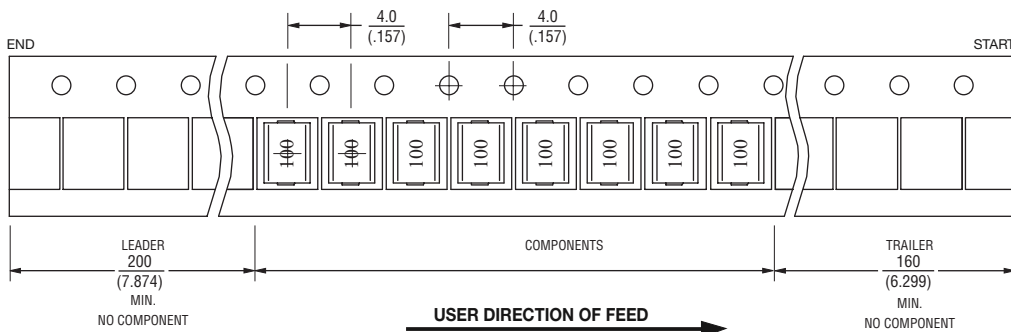
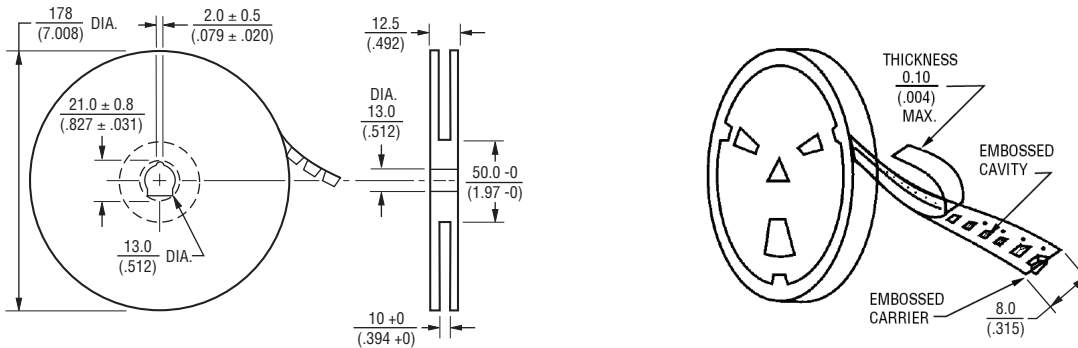
**BOURNS®**

## Soldering Profile

Peak Temperature: 250 °C max.  
 Max. Time Above 245 °C  
 Max. Time Above 217 °C: 60-150 sec. max.  
 200 °C ~ 250 °C Average Ramp-up Rate: 3 °C / sec. max.



## Packaging Specifications



USER DIRECTION OF FEED  
 QTY: 2000 PCS. PER REEL

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

REV. 03/26

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Users should verify actual device performance in their specific applications.

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