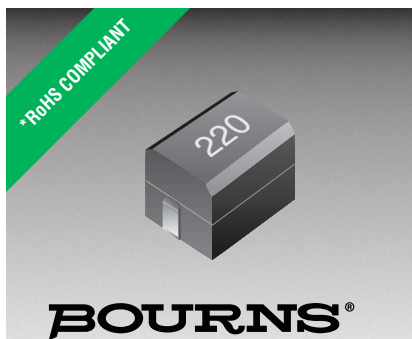




Features

- 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 μ H
- RoHS compliant*

Applications

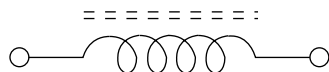
- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

PM1210 Series - Chip Inductor

Electrical Specifications @25 °C

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
	μ H	Tol. (%)					
PM1210-1R0J-RC	1	± 5	30	7.96	120	0.7	400
PM1210-1R2J-RC	1.2	± 5	30	7.96	100	0.75	390
PM1210-1R5J-RC	1.5	± 5	30	7.96	85	0.85	370
PM1210-1R8J-RC	1.8	± 5	30	7.96	80	0.9	350
PM1210-2R2J-RC	2.2	± 5	30	7.96	75	1	320
PM1210-2R7J-RC	2.7	± 5	30	7.96	70	1.1	290
PM1210-3R3J-RC	3.3	± 5	30	7.96	60	1.2	260
PM1210-3R9J-RC	3.9	± 5	30	7.96	55	1.3	250
PM1210-4R7J-RC	4.7	± 5	30	7.96	50	1.5	220
PM1210-5R6J-RC	5.6	± 5	30	7.96	45	1.6	200
PM1210-6R8J-RC	6.8	± 5	30	7.96	40	1.8	180
PM1210-8R2J-RC	8.2	± 5	30	7.96	35	2	170
PM1210-100J-RC	10	± 5	30	2.52	30	2.1	150
PM1210-120J-RC	12	± 5	30	2.52	20	2.5	140
PM1210-150J-RC	15	± 5	30	2.52	20	2.8	130
PM1210-180J-RC	18	± 5	30	2.52	20	3.3	120
PM1210-220J-RC	22	± 5	30	2.52	20	3.7	110
PM1210-270J-RC	27	± 5	30	2.52	20	5	80
PM1210-330J-RC	33	± 5	30	2.52	17	5.6	70
PM1210-390J-RC	39	± 5	30	2.52	16	6.4	65
PM1210-470J-RC	47	± 5	30	2.52	15	7	60
PM1210-560J-RC	56	± 5	30	2.52	13	8	55
PM1210-680J-RC	68	± 5	30	2.52	12	9	50
PM1210-820J-RC	82	± 5	30	2.52	11	10	45
PM1210-101J-RC	100	± 5	20	0.796	10	11	40
PM1210-121J-RC	120	± 5	20	0.796	10	11	70
PM1210-151J-RC	150	± 5	20	0.796	8	15	65

Schematic



BOURNS®

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www.bourns.com



WARNING Cancer and Reproductive Harm - 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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

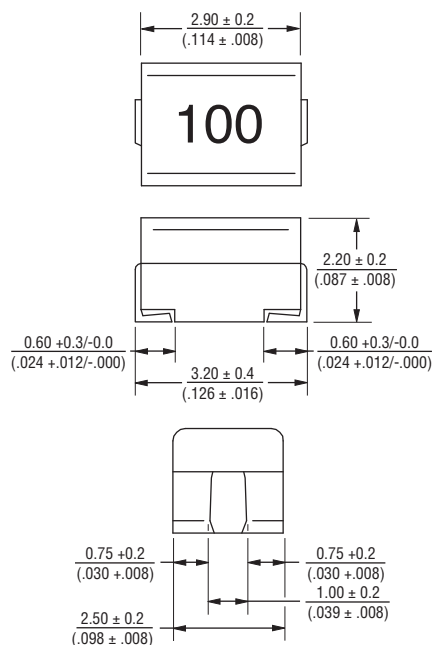
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature -40 °C to +125 °C
Resistance to Soldering Heat 245 °C, 5 seconds
Temperature Rise 20 °C
Rated Current.... Inductance drops 10 %

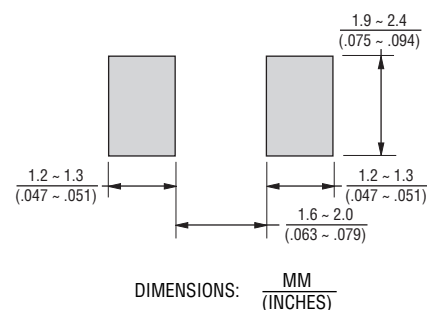
Materials

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

Product Dimensions



Recommended Layout



BOURNS®

The graph illustrates a thermal profile with the following stages and parameters:

- Ramp Up:** 4 °C/second maximum, reaching 150 °C.
- Dwell:** 120-150 seconds at 150 °C.
- Ramp Up:** Reaching 245 °C.
- Dwell:** 60 seconds maximum at 245 °C.
- Ramp Down:** 5 °C/second.

Key temperature points and annotations include:

- 150 °C
- 170 °C
- 183 °C
- 245 °C (labeled as <1> 245 °C)

Top View:

- Overall diameter: 178 DIA. (7.008)
- Inner diameter: 2.0 ± 0.5 ($.079 \pm .020$)
- Outer diameter of lead: 21.0 ± 0.8 ($.827 \pm .031$)
- Inner diameter of lead: 13.0 DIA. ($.512$)

Side View:

- Lead thickness: 12.5 ($.492$)
- Lead diameter: $\text{DIA. } 13.0$ ($.512$)
- Lead length: $50.0 - 0$ ($1.97 - 0$)
- Lead width: $10 + 0$ ($.394 + 0$)

End View:

- Thickness: 0.10 ($.004$) MAX.
- Embossed cavity
- Embossed carrier
- Carrier width: 8.0 ($.315$)

End View (Longitudinal Section):

- END
- START
- LEADER: 200 (7.874) MIN.
- COMPONENTS: 100 Ohm resistors
- TRAILER: 160 (6.299) MIN.
- NO COMPONENT
- USER DIRECTION OF FEED
- QTY: 2000 PCS. PER REEL
- DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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