

### **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	Test	SRF	DCR Max.	IDC
	μΗ	Tol. (%)	Min.	Frequency (MHz)	Min. (MHz)	Max. (Ω)	(mA)
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**



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### 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 <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>

## **General Specifications**

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included)

Storage Temperature

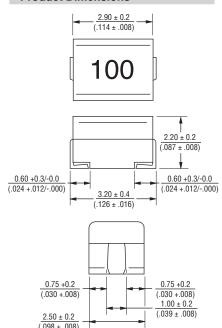
Resistance to Soldering Heat

......245 °C, 5 seconds Temperature Rise ......20 °C Rated Current .... Inductance drops 10 %

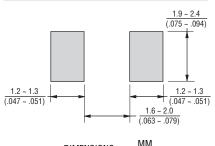
Materials

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

#### **Product Dimensions**



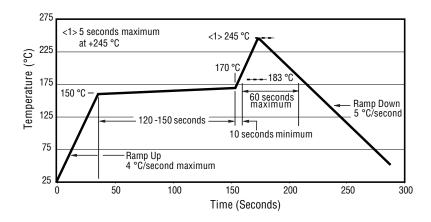
## **Recommended Layout**



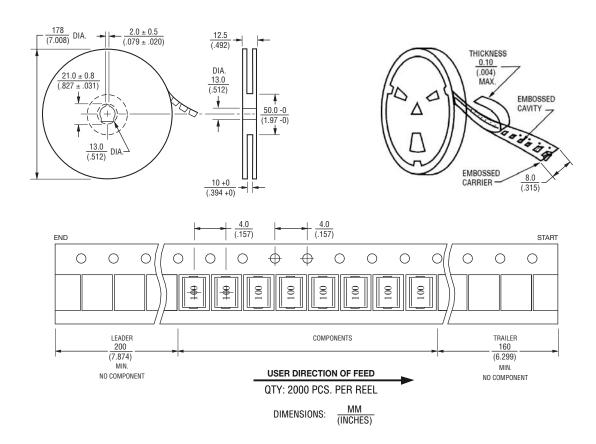
DIMENSIONS:

(INCHES)

### **Soldering Profile**



### **Packaging Specifications**



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