

**BOURNS®**

**Features**

- Formerly *J.W. Miller* model
- 0805 size
- Available in E12 series
- High Q up to 60 typ.
- High operating temperature of 125 °C
- RoHS compliant\*

**Applications**

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

**PM0805 Series - High Q Chip Inductors**

**Electrical Specifications**

| Bourns Part No. | Inductance |        | Q<br>Min. | Test Frequency (MHz) |      | SRF<br>Min.<br>(MHz) | RDC<br>(Ω) | I rms<br>Max.<br>(mA) |
|-----------------|------------|--------|-----------|----------------------|------|----------------------|------------|-----------------------|
|                 | nH         | Tol. % |           | L                    | Q    |                      |            |                       |
| PM0805-2N8M-RC  | 2.8        | ±20    | 32        | 250                  | 1000 | 6000                 | 0.06       | 800                   |
| PM0805-3N3M-RC  | 3.3        | ±20    | 30        | 250                  | 1500 | 6000                 | 0.08       | 600                   |
| PM0805-5N6M-RC  | 5.6        | ±20    | 60        | 250                  | 1000 | 5800                 | 0.08       | 600                   |
| PM0805-6N8M-RC  | 6.8        | ±20    | 60        | 250                  | 1000 | 5800                 | 0.06       | 600                   |
| PM0805-8N2M-RC  | 8.2        | ±20    | 60        | 250                  | 1000 | 5500                 | 0.06       | 600                   |
| PM0805-10NM-RC  | 10         | ±20    | 60        | 250                  | 500  | 4800                 | 0.08       | 600                   |
| PM0805-12NM-RC  | 12         | ±20    | 60        | 250                  | 500  | 4100                 | 0.08       | 600                   |
| PM0805-15NM-RC  | 15         | ±20    | 60        | 250                  | 500  | 3600                 | 0.08       | 600                   |
| PM0805-18NM-RC  | 18         | ±20    | 60        | 250                  | 500  | 3400                 | 0.08       | 600                   |
| PM0805-22NM-RC  | 22         | ±20    | 60        | 250                  | 500  | 3300                 | 0.10       | 600                   |
| PM0805-27NM-RC  | 27         | ±20    | 60        | 250                  | 500  | 2600                 | 0.12       | 600                   |
| PM0805-33NM-RC  | 33         | ±20    | 60        | 250                  | 500  | 2400                 | 0.15       | 500                   |
| PM0805-39NM-RC  | 39         | ±20    | 60        | 250                  | 500  | 2100                 | 0.18       | 500                   |
| PM0805-47NM-RC  | 47         | ±20    | 60        | 200                  | 500  | 1700                 | 0.15       | 500                   |
| PM0805-56NK-RC  | 56         | ±10    | 60        | 200                  | 500  | 1600                 | 0.25       | 500                   |
| PM0805-68NK-RC  | 68         | ±10    | 60        | 200                  | 500  | 1450                 | 0.27       | 500                   |
| PM0805-82NK-RC  | 82         | ±10    | 60        | 150                  | 500  | 1350                 | 0.32       | 500                   |
| PM0805-R10K-RC  | 100        | ±10    | 60        | 150                  | 500  | 1200                 | 0.43       | 400                   |
| PM0805-R12K-RC  | 120        | ±10    | 50        | 150                  | 250  | 1100                 | 0.48       | 400                   |
| PM0805-R15K-RC  | 150        | ±10    | 50        | 100                  | 250  | 950                  | 0.67       | 400                   |
| PM0805-R18K-RC  | 180        | ±10    | 50        | 100                  | 250  | 900                  | 0.85       | 350                   |
| PM0805-R22K-RC  | 220        | ±10    | 50        | 100                  | 250  | 860                  | 1.10       | 300                   |
| PM0805-R27K-RC  | 270        | ±10    | 45        | 100                  | 250  | 850                  | 1.46       | 250                   |
| PM0805-R33K-RC  | 330        | ±10    | 45        | 100                  | 250  | 800                  | 1.65       | 200                   |
| PM0805-R39K-RC  | 390        | ±10    | 45        | 100                  | 250  | 780                  | 2.20       | 170                   |
| PM0805-R56K-RC  | 560        | ±10    | 23        | 50                   | 50   | 340                  | 1.90       | 230                   |

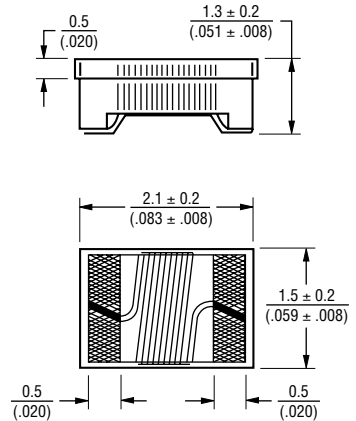
**General Specifications**

Temperature Rise ..... 40 °C max. at rated current  
 Operating Temperature ..... -40 °C to +125 °C  
 Storage Temperature ..... -40 °C to +125 °C  
 Reflow Soldering .. 230 °C, 50 sec. max.  
 Resistance to Soldering Heat ..... 260 °C, 5 seconds

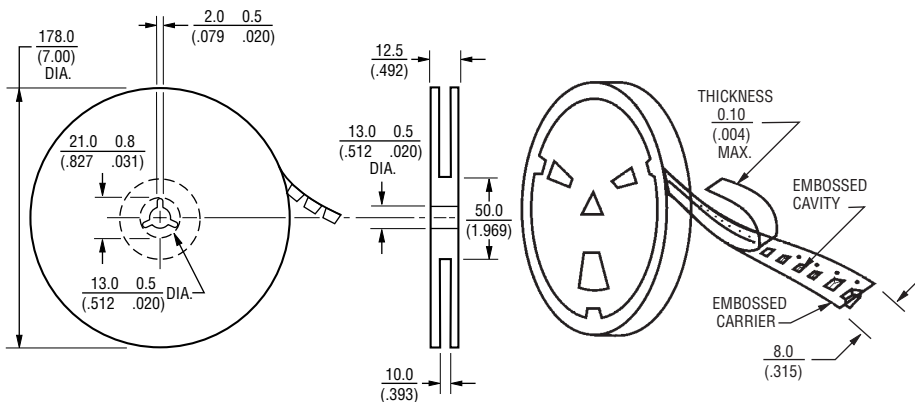
**Materials**

Core Material ..... Alumina (1CC201211)  
 Wire ..... Enamelled Copper (1W1E180)  
 Terminal ..... Mo/Mn+Ni+Au  
 Packaging ..... 2,000 pcs. per reel

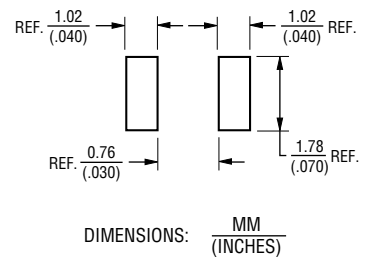
**Product Dimensions**



**Packaging Specifications**



**Recommended Layout**



REV. 05/11

\*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