



## Features

- Formerly J. W. Miller® model
- Current rating up to 7 A
- Compact size
- Tape and reel packaging
- RoHS compliant\*

## Applications

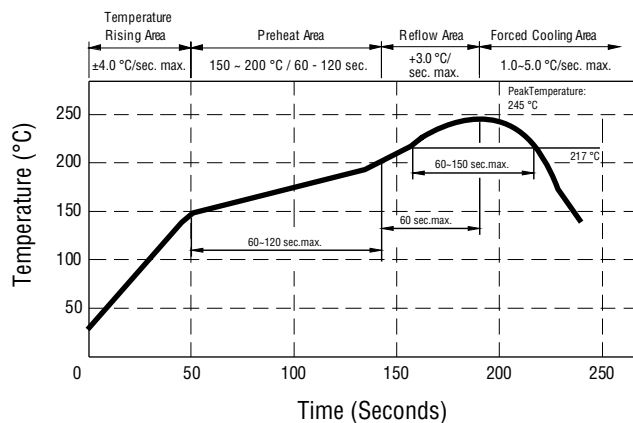
- Filtering
- Common mode

# PM3700 Series - SMD Common Mode Choke

## Electrical Specifications

| Bourns Part No. | Inductance<br>mH Min.<br>@ 1 kHz /<br>50 mV | Part<br>Marking | DCR<br>( $\Omega$ )<br>Max. | I <sub>rms</sub><br>(A) | Leakage<br>Inductance<br>( $\mu$ H) Typ. | Typical Frequency<br>Range with<br>20 dB Atten. |
|-----------------|---------------------------------------------|-----------------|-----------------------------|-------------------------|------------------------------------------|-------------------------------------------------|
| PM3700-10-RC    | 0.2                                         | 201             | 0.008                       | 7.0                     | 1.6                                      | 5 - 55 MHz                                      |
| PM3700-20-RC    | 0.5                                         | 501             | 0.010                       | 6.0                     | 2.2                                      | 4 - 40 MHz                                      |
| PM3700-30-RC    | 0.75                                        | 751             | 0.012                       | 5.5                     | 2.9                                      | 1 - 20 MHz                                      |
| PM3700-40-RC    | 1.0                                         | 102             | 0.020                       | 4.0                     | 3.9                                      | 500 KHz - 40 MHz                                |
| PM3700-50-RC    | 2.0                                         | 202             | 0.030                       | 3.5                     | 0.3                                      | 300 KHz - 20 MHz                                |
| PM3700-60-RC    | 5.0                                         | 502             | 0.070                       | 2.0                     | 0.4                                      | 100 KHz - 10 MHz                                |
| PM3700-70-RC    | 10                                          | 103             | 0.150                       | 1.5                     | 0.5                                      | 50 KHz - 5 MHz                                  |
| PM3700-80-RC    | 20                                          | 203             | 0.250                       | 1.0                     | 0.7                                      | 25 KHz - 4 MHz                                  |

## Solder Profile



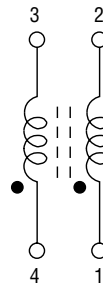
Peak Temperature: 245 ° ±5 °C max., 30 sec. max.  
Maximum Time Above 217 °C: 60-150 seconds

## Additional Information

Click these links for more information:



## Schematic



## General Specifications

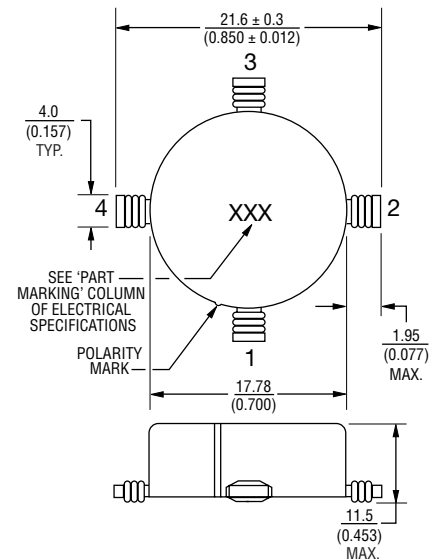
Temperature Rise ... 35 °C typical at I<sub>rms</sub>  
Operating Temperature ... -55 °C to +125 °C  
Storage Temperature

..... -55 °C to +125 °C  
Dielectric Strength ..... 500 Vrms  
between windings  
Moisture Sensitivity Level ..... 1  
ESD Classification (HBM) ..... N/A

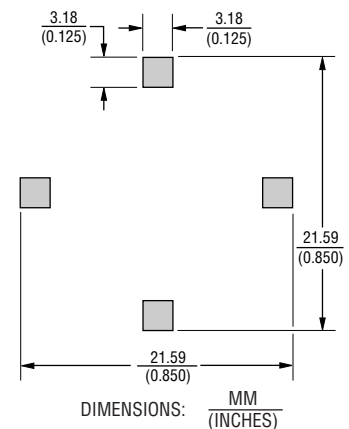
## Materials

Core ..... Ferrite  
Wire ..... Polyester-coated copper  
Terminal Finish ..... SnAgCu  
Packaging ..... 200 pcs. per 13-inch reel

## Product Dimensions



## Recommended Pad Layout



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

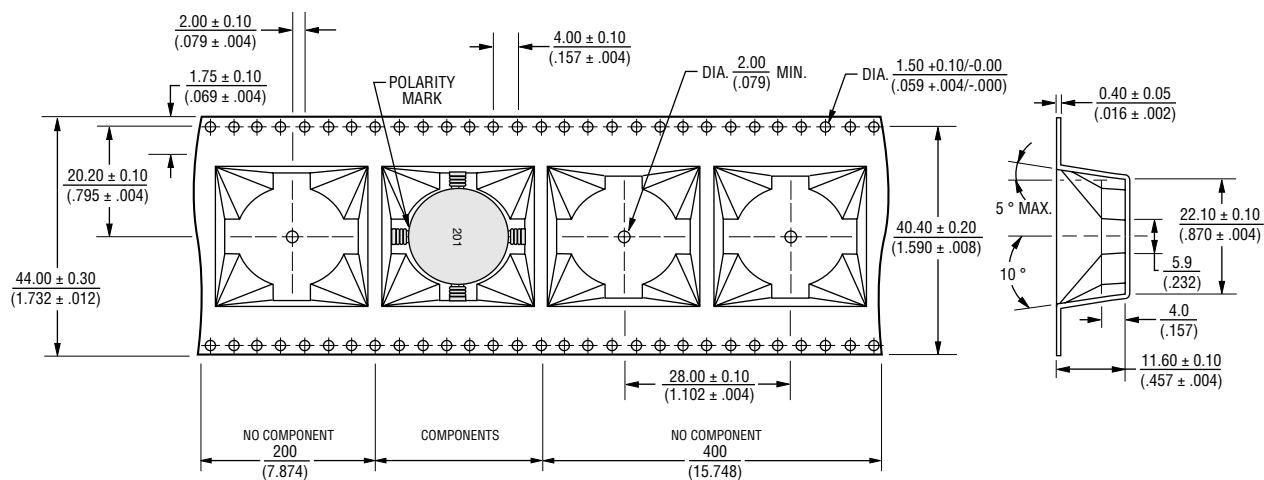
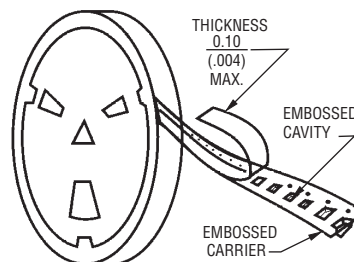
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

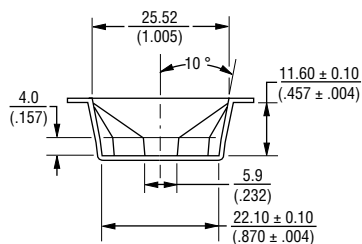
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**BOURNS®**



QTY: 200 PCS. PER REEL

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



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