

## Surface Mount Low Pass Filters PSM Series

### PSM



Voltage Rating DC . . . . . 200 VDC @ -55°C to +125°C

DWV . . . . . 700 VDC

Current

Rating . . . . . 20 Amps (Feed-through) max.  
10 Amps (Pi) max.

Insulation

Resistance . . . . . 1.0 GΩ @ 25°C

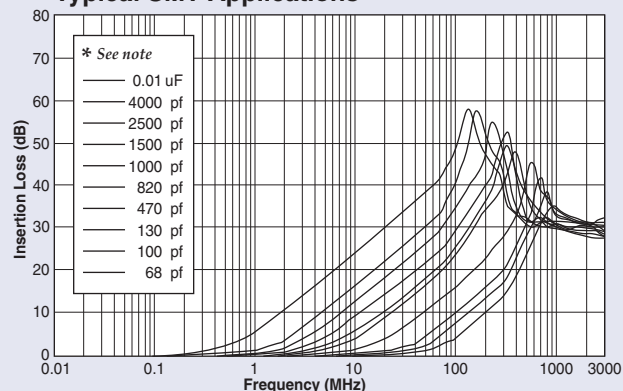
Dissipation

Factor . . . . . 4.0% maximum

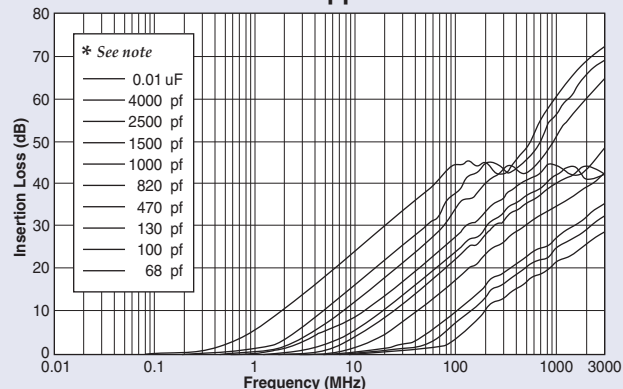
D.C.R. . . . . Max. .0005Ω, typ. .0002Ω

## Feed-Through Insertion Loss

### Typical SMT Applications

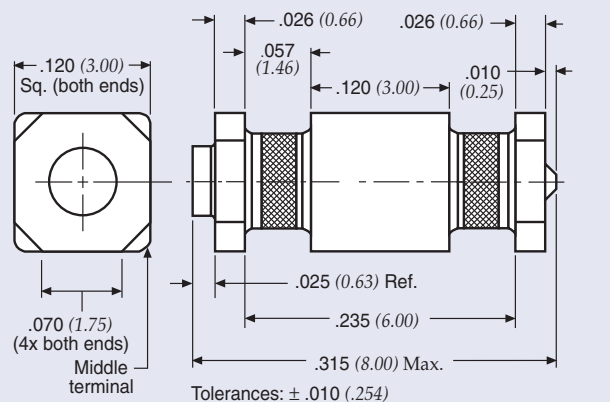


### Shielded or Partition Applications



\* Capacitance values for insertion loss curves are displayed left to right in the order shown.

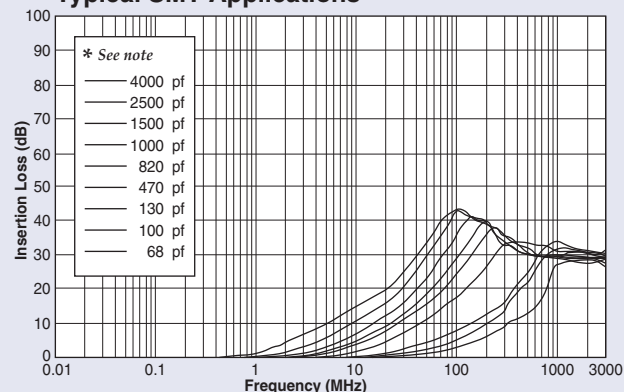
### PSM



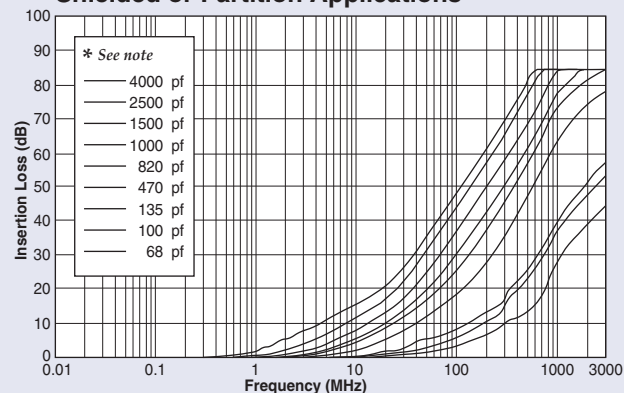
Dimensions in inches (mm)

## Pi Insertion Loss

### Typical SMT Applications



### Shielded or Partition Applications



## Surface Mount Low Pass Filters PSM Series

### PSM Ordering Information

Example: **PSM4-402Z-20T0**

| PSM                                                     | 4                          | -         | 402Z        | - | 20                                               | T                                                 | 0                                                                                                                   |
|---------------------------------------------------------|----------------------------|-----------|-------------|---|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Style                                                   | Circuit Configuration      |           | Capacitance |   | Current Rating                                   | Packaging                                         | Tape and Reel                                                                                                       |
| PSM (Power)                                             | 1 - Pi<br>4 - Feed-through |           |             |   | 10 - 10 Amps (Pi)<br>20 - 20 Amps (Feed-through) | T - Tape and reel packaging<br>B - Bulk packaging | 0 - 500 pieces<br>2 - 2,000 pieces<br><i>Note: Tape and reel packaging - 500 pieces (7") and 2,000 pieces (13")</i> |
| † Also available through API's authorized distributors. |                            |           |             |   |                                                  |                                                   |                                                                                                                     |
| Code                                                    | Value*                     | Tolerance |             |   |                                                  |                                                   |                                                                                                                     |
| 680M                                                    | 68 pF                      | ±20%      |             |   |                                                  |                                                   |                                                                                                                     |
| 101M                                                    | 100 pF                     | ±20%      |             |   |                                                  |                                                   |                                                                                                                     |
| 131P                                                    | 130 pF                     | +100/-0%  |             |   |                                                  |                                                   |                                                                                                                     |
| 471P                                                    | 470 pF                     | +100/-0%  |             |   |                                                  |                                                   |                                                                                                                     |
| 821M                                                    | 820 pF                     | ±20%      |             |   |                                                  |                                                   |                                                                                                                     |
| 102M                                                    | 1000 pF                    | ±20%      |             |   |                                                  |                                                   |                                                                                                                     |
| 152M                                                    | 1500 pF                    | ±20%      |             |   |                                                  |                                                   |                                                                                                                     |
| 252P                                                    | 2500 pF                    | +100/-0%  |             |   |                                                  |                                                   |                                                                                                                     |
| 402Z                                                    | 4000 pF                    | +80/20%   |             |   |                                                  |                                                   |                                                                                                                     |
| 103Z**                                                  | .01 μF                     | +80/-20%  |             |   |                                                  |                                                   |                                                                                                                     |

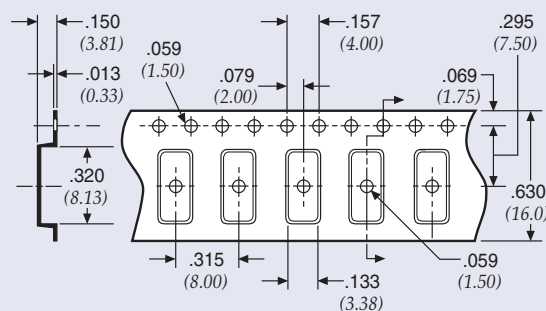
\* Other capacitance values available as special order.

\*\* Available in Feed-through circuit only.

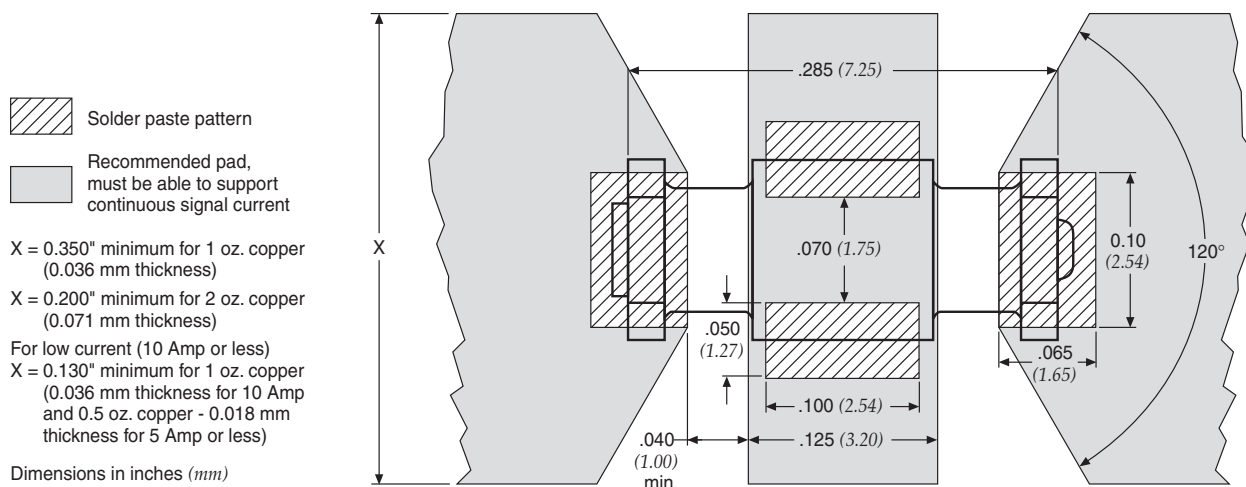
### Technical Notes

- Soldering recommendations supplied upon request
- Reflow temperature limit is 250°C
- Unit weight is approximately 0.4 grams
- Tape and reel packaging available for automated assembly

### PSM Tape and Reel Packaging



### PSM Recommended Board Pattern



# Mouser Electronics

Authorized Distributor

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## API Technologies:

[PSM1-402Z-05T](#) [PSM4-402Z-05T](#) [PSM1-101M-05T0](#) [PSM1-102M-05T0](#) [PSM1-102M-02T0](#) [PSM1-102M-10T0](#)  
[PSM1-252P-05T0](#) [PSM1-402Z-02B](#) [PSM1-402Z-10B](#) [PSM1-402Z-10T0](#) [PSM1-471P-10T0](#) [PSM1F-101M-05T0](#)  
[PSM1F-102M-02T0](#) [PSM1F-102M-05T0](#) [PSM1F-252P-02T0](#) [PSM4-102M-20T0](#) [PSM4F-102M-20B](#) [PSM4F-103Z-](#)  
[20T0](#) [PSM4F-152M-20T0](#) [PSM1-252P-10B](#) [PSM1-252P-02T0](#) [PSM4-152M-20T0](#) [PSM4-102M-20T](#) [PSM4-152M-20T](#)  
[PSM4-102M-20B](#) [PSM4-103Z-20T0](#) [PSM1F-471P-10T0](#) [PSM1-402Z-05T2](#) [PSM1-101M-05T2](#) [PSM1-101M-10T0](#)  
[PSM1-101M-10T2](#) [PSM1F-152M-10T0](#) [PSM1-402Z-10T2](#) [PSM4F-152M-10T0](#) [PSM1F-821M-10B](#) [PSM4-101M-20T0](#)  
[PSM4F-101M-20T0](#) [PSM4F-252P-20T0](#) [PSM4-103Z-20T0-L](#) [PSM1F-252P-10T0](#) [PSM1F-680M-10T0](#) [PSM4-103Z-](#)  
[20B](#) [PSM1-821M-10B](#) [PSM4-252P-20B](#) [PSM1F-101M-10B](#) [PSM4F-102M-10B](#) [PSM4F-103Z-10B](#) [PSM4F-252P-10B](#)  
[PSM4F-402Z-10B](#) [PSM4F-821M-10B](#) [PSM1-152M-10B](#) [PSM4-152M-20B](#) [PSM1F-102M-10T0](#) [PSM1-101M-02B](#)  
[PSM1-101M-02T2](#) [PSM1-101M-05B](#) [PSM1-101M-10B](#) [PSM1-102M-02B](#) [PSM1-102M-02T2](#) [PSM1-102M-05B](#)  
[PSM1-102M-05T2](#) [PSM1-102M-10T2](#) [PSM1-131P-02B](#) [PSM1-131P-02T0](#) [PSM1-131P-02T2](#) [PSM1-131P-05B](#)  
[PSM1-131P-05T0](#) [PSM1-131P-05T2](#) [PSM1-131P-10B](#) [PSM1-131P-10T0](#) [PSM1-131P-10T2](#) [PSM1-152M-02B](#)  
[PSM1-152M-02T0](#) [PSM1-152M-02T2](#) [PSM1-152M-05B](#) [PSM1-152M-05T0](#) [PSM1-152M-05T2](#) [PSM1-152M-10T0](#)  
[PSM1-152M-10T2](#) [PSM1-252P-02B](#) [PSM1-252P-02T2](#) [PSM1-252P-05B](#) [PSM1-252P-05T2](#) [PSM1-252P-10T2](#)  
[PSM1-402Z-02T2](#) [PSM1-402Z-05B](#) [PSM1-402Z-20B](#) [PSM1-402Z-20T0](#) [PSM1-402Z-20T2](#) [PSM1-471P-02B](#) [PSM1-](#)  
[471P-02T0](#) [PSM1-471P-02T2](#) [PSM1-471P-05B](#) [PSM1-471P-05T0](#) [PSM1-471P-05T2](#) [PSM1-471P-10B](#) [PSM1-471P-](#)  
[10T2](#) [PSM1-680M-02B](#) [PSM1-680M-02T2](#) [PSM1-680M-05B](#)