

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

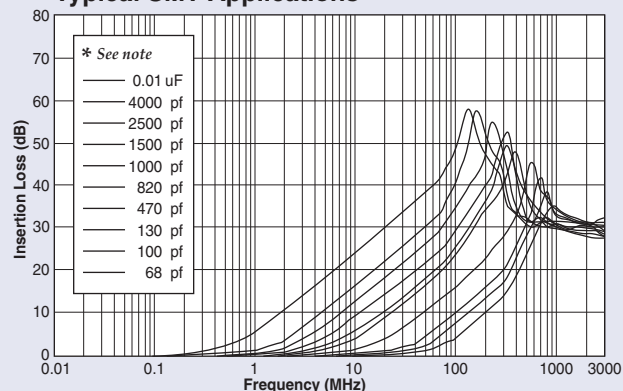
Dissipation

Factor 4.0% maximum

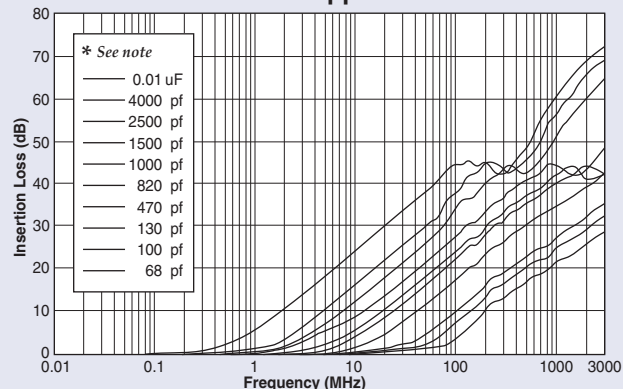
D.C.R. Max. .0005Ω, typ. .0002Ω

Feed-Through Insertion Loss

Typical SMT Applications

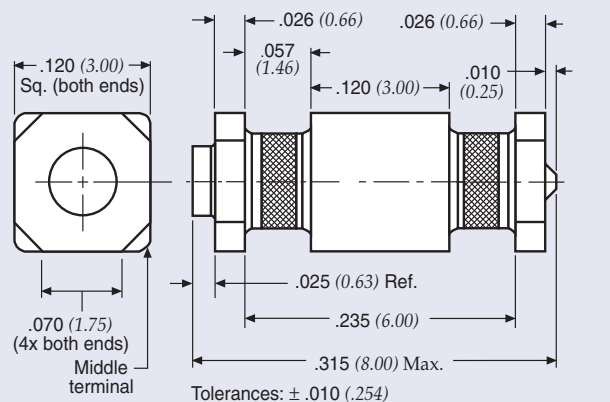


Shielded or Partition Applications



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

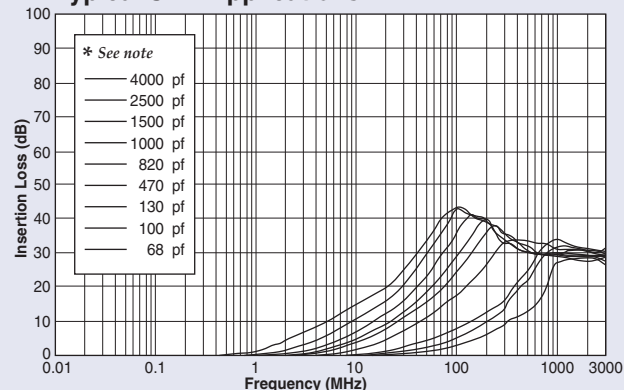
PSM



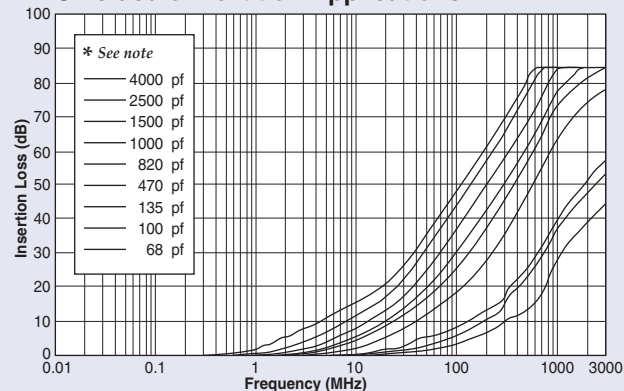
Dimensions in inches (mm)

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 4 - Feed-through				10 - 10 Amps (Pi) 20 - 20 Amps (Feed-through)	T - Tape and reel packaging B - Bulk packaging	0 - 500 pieces 2 - 2,000 pieces <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%					

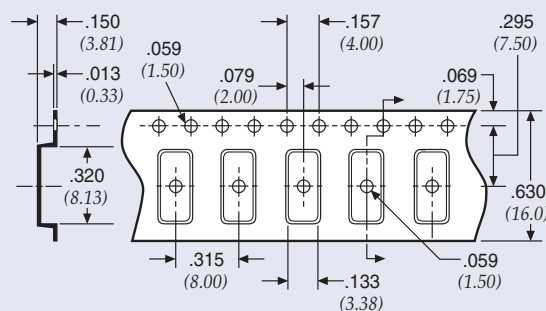
* Other capacitance values available as special order.

** Available in Feed-through circuit only.

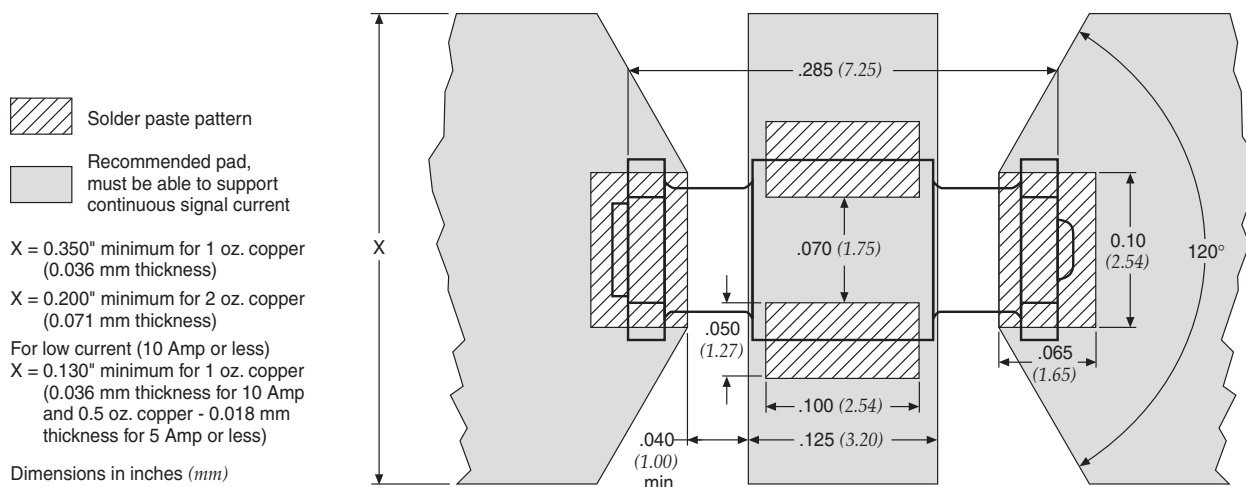
Technical Notes

- 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

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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](#)