

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

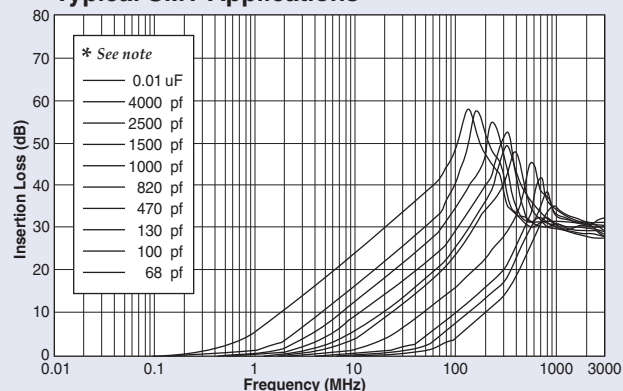
Dissipation

Factor 4.0% maximum

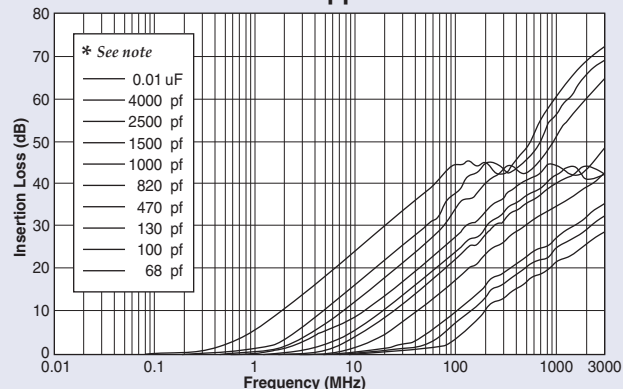
D.C.R. Max. .0005Ω, typ. .0002Ω

Feed-Through Insertion Loss

Typical SMT Applications

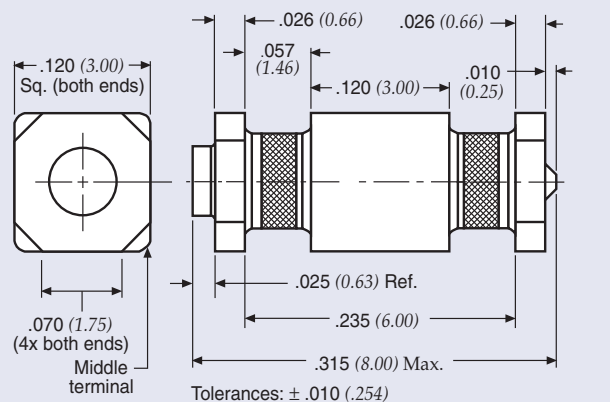


Shielded or Partition Applications



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

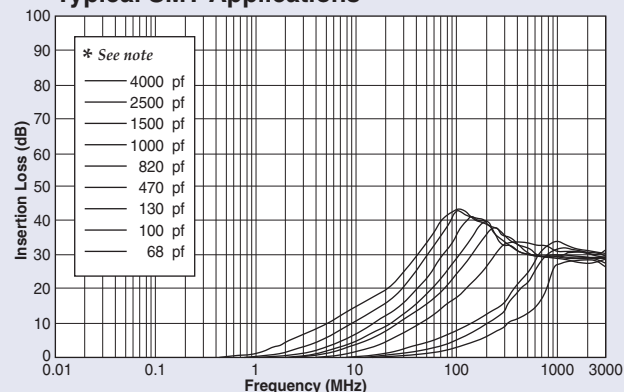
PSM



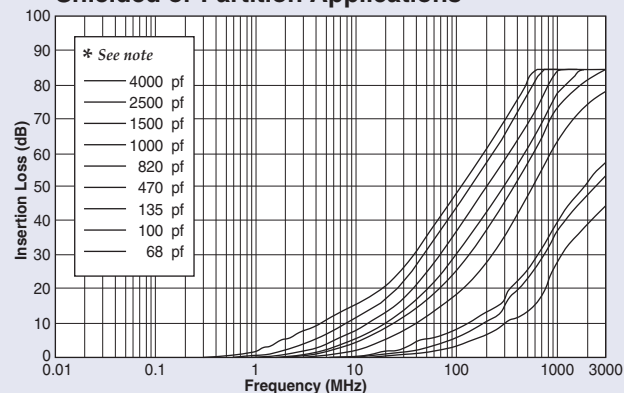
Dimensions in inches (mm)

Pi Insertion Loss

Typical SMT Applications



Shielded or Partition Applications



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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%					

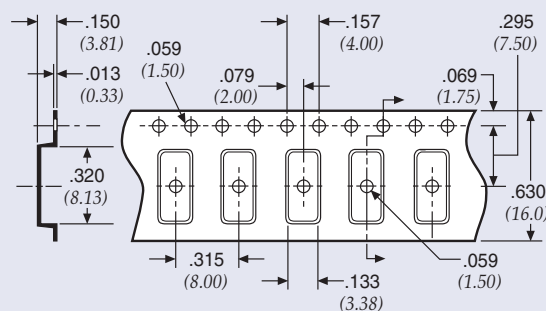
* Other capacitance values available as special order.

** Available in Feed-through circuit only.

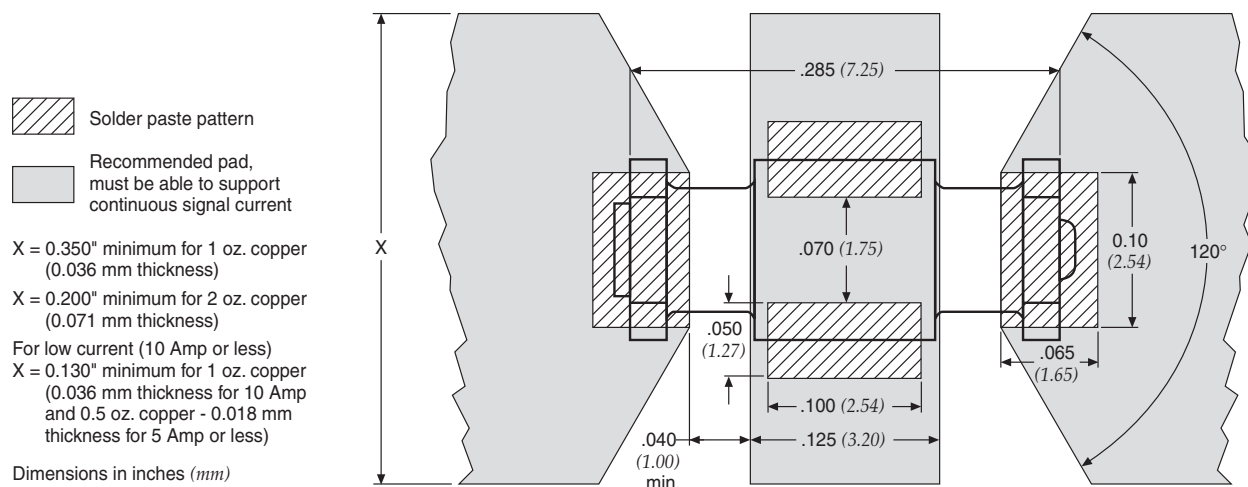
Technical Notes

- 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](#)