

PSM-2 SERIES – PHASE SHIFTERS, MANUAL

TECHNICAL FEATURE

FEATURES

- 10 to 500 MHz
- 0° to 90°
- 10% bandwidth
- Multi-Turn Adjustment, High Resolution Manual Units

PRINCIPAL SPECIFICATIONS

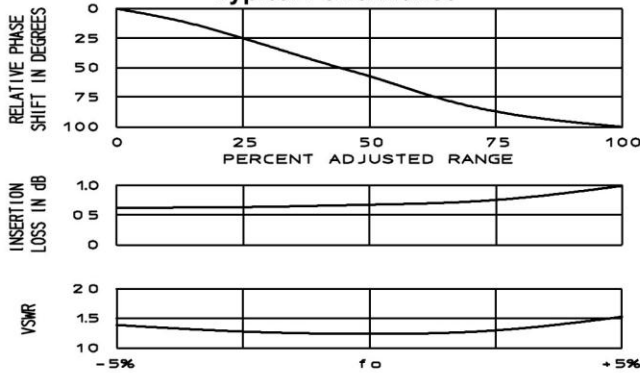
Model Number	Center Frequency, f_0 , MHz	Usable Bandwidth
PSM-2-***B	10 to 500	$f_0 \pm 5\%$

For complete Model Number replace *** with desired Center Frequency, f_0 in MHz.

GENERAL SPECIFICATIONS

Phase Shift Range	90° min. @ f_0
Insertion Loss:	1.5 dB max.
Impedance:	50 Ω nom.
VSWR:	1.6:1 max.
Screw Drive:	Multi-Turn
Turns for maximum phase shift:	
10 MHz to 125 MHz:	32 turns nom.
125 MHz to 500 MHz:	18 turns nom.
CW Power:	0.5 Watts max.
Weight, nominal:	2 oz (58 g)
Operating Temp:	-55° to +85°C

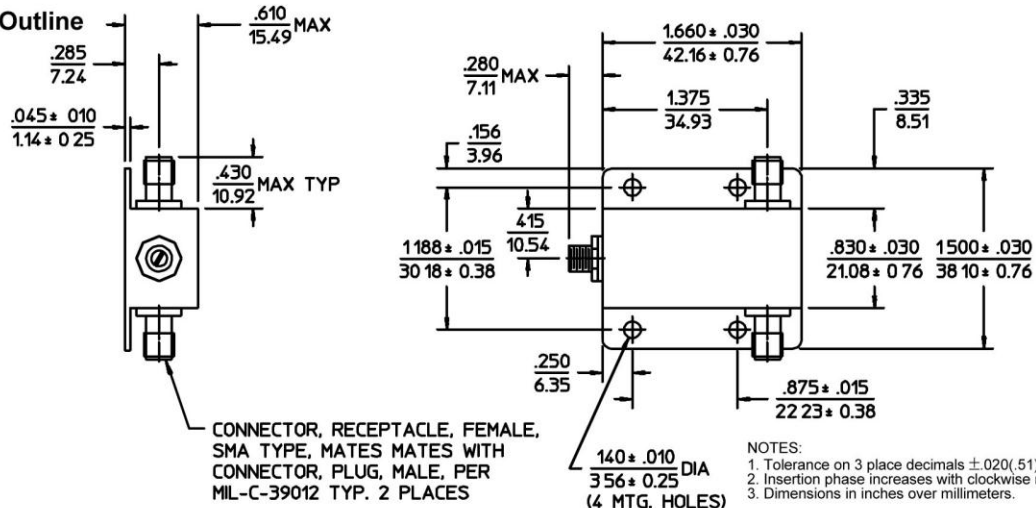
Typical Performance



General Notes:

1. The PSM-2 series adjusts phase continuously with a multi-turn screw from 0° to 90°.
2. These phase shifters employ lumped element quadrature hybrids with capacitor tuned LC networks, acting as sliding short circuits on the outputs. The electrical length of the short effectively delays the reflected signal which appears at the isolated port of the quadrature hybrid.

Package Outline



NOTES:

1. Tolerance on 3 place decimals ±.020(.51) except as noted.
2. Insertion phase increases with clockwise rotation of screw.
3. Dimensions in inches over millimeters.

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