



## PRINCIPAL SPECIFICATIONS

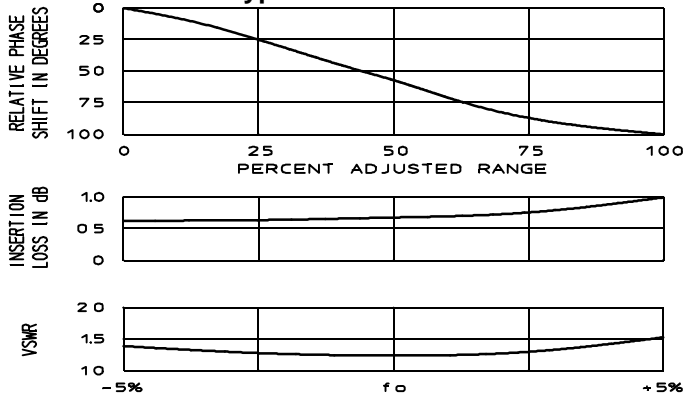
| Model Number | Center Frequency, $f_0$ , MHz | Usable Bandwidth |
|--------------|-------------------------------|------------------|
| PSM-2-***B   | 10 to 500                     | $f_0 \pm 5\%$    |

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 $\Omega$ 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    |

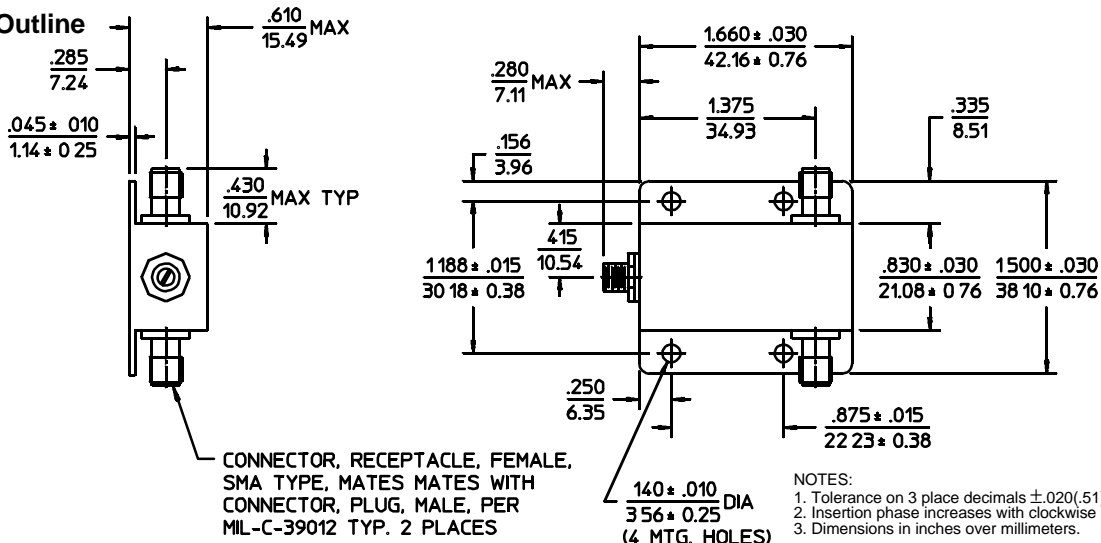
### Typical Performance



### 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



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### 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.