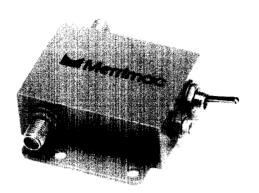
10 to 100 MHz / O' to 180° Cantinuous Phis 180° Swit





PRINCIPAL SPECIFICATIONS

| Model Number | Center Frequency, fo, MHz | Phase Shift Range at f _o | Usable Bandwidth |
|-----------------|---------------------------------|---|---------------------|
| PSM-4E-**B | 10 to 100 | 360° min. | $f_0 \pm 5\%$ |

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

Package Outline 1,700 ± .030 43.18 ± 0.76 1.375 .650 MAX. CONN., RECEPTACLE. FEMALE. SMA TYPE MATES WITH CONN. PLUG MALE PER 34.93 1.460 ± .030 8.26 37.08 ± 0.76 .045 * .010 .120 1,14 + 0.25 MIL-C-39012 3.05 TYP. 2 PLACES Ф TOGGLE SWITCH 1.955 ± .030 1.640 ± .015 1.285 ± .030 41.66 ± 0.38 32.64 ± 0.76 .840 49.66 * 0.76 2134 400 .335 .156 6.73 8.51 3.96 .875 ± .015 ,140 ±.010 DIA. 4 MTG. HOLES 22.23 = 0.38 3.56 ±0.25 1. Tolerance on 3 place decimals $\pm.020(\,51)$ except as noted 2. Dimensions in inches over millimeters.

GENERAL SPECIFICATIONS

1.75 dB max. Insertion Loss: 50 Ω norn. Impedance: 2.0:1 max VSWR: 1 Watt max. CW Power: 32 turns nom., plus Screw Drive:

toggle switch

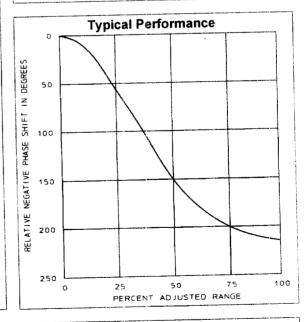
Control direction for

increasing phase shift: Clockwise

Weight, nominal:

1.5 oz. (42 g)

- 55° to +85°C Operating Temp:



General Notes:

- 1. The PSM-4E series of Phase Shifters provides continuously variable phase shift across the range of 0° to 180°. An additional 180° phase shift can be switched in to provide a total range of 360°.
- 2. To realize variable phase shifts, these models employ a lumped element quadrature hybrid with a matched pair of L-C networks acting as sliding short circuits on the outputs. The electrical length of the short effectively delays the reflected signal that appears at the isolated port of the
- 3. Merrimac phase shifters are designed for high reliability and can be supplied screened for specific applications.

15Feb96