PSS-2 Series

PHASE SHIFTERS, MANUAL

10 to 400 MHz / 0° to 90° / 10% Bandwidth / Multi-Turn Adjustment, High Resolution Models

PRINCIPAL SPECIFICATIONS

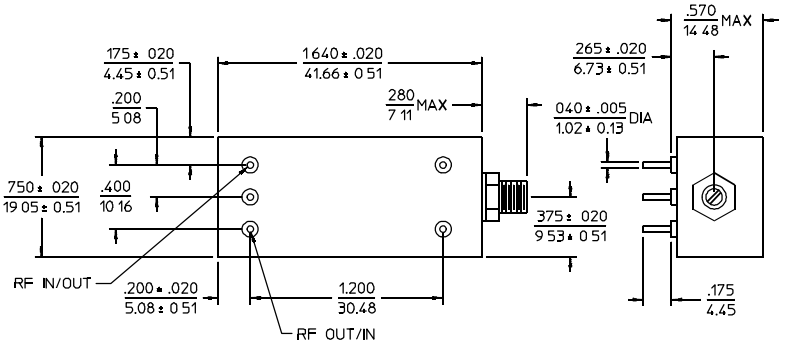
Model Number	Center Frequency, f_O, MHz	Usable Bandwidth, MHz
PSS-2-70	70	66.5 - 73.5
PSS-2-**B	10 to 400	$f_o \pm 5\%$

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

GENERAL SPECIFICATIONS

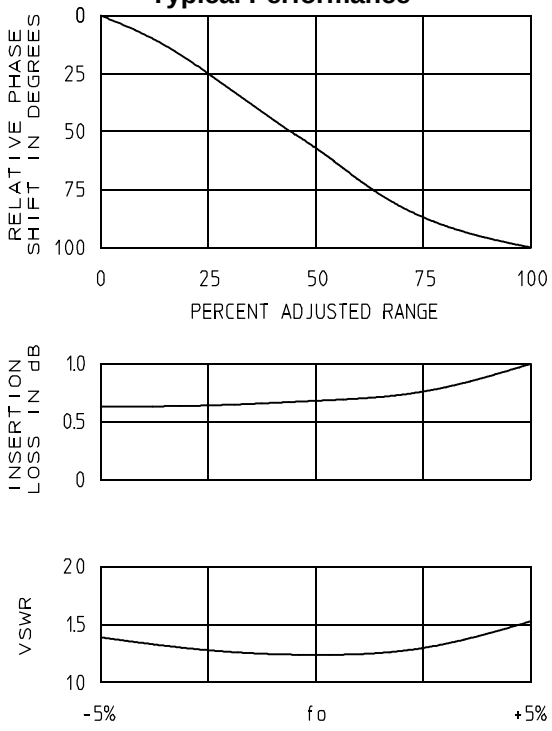
Phase Shift Range:	90° min.
Insertion Loss:	1.5 dB max.
Impedance:	50 Ω nom.
VSWR:	1.6:1 max.
Screw Drive:	Multi-turn
(insertion phase increases with clockwise rotation)	
Turns for max. Phase Shift	
10 MHz to 125 MHz:	32 turns nom.
100 MHz to 500 MHz:	18 turns nom.
CW Power:	0.5 Watts max.
Package:	PC Plug-In
Weight, nominal:	1.1 oz. (31 g)
Operating Temp:	– 55° to +85°C

Package Outline



NOTES: 1. Tolerance on 3 place decimals ±.020(.51) except as noted.
2. Dimensions in inches over millimeters.
3. All unmarked pins are internally ground.

Typical Performance



General Notes:

1. The PSS-2 series provides continuously variable phase shift across the range of 0° to 90° using a precision, multi-turn screw adjustment.
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.
3. Similar phase shifters are available in a variety of connectorized packages as well as electronically tuned models in flatpacks and Meri-Pacs.

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For further information contact *MERRIMAC / 41 Fairfield Pl, West Caldwell, NJ, 07006 / 973-575-1300 / FAX 973-575-0531*