

Mechanical Phase Shifters



Model 917 Miniature In-Line Phase Shifter Ruggedized 2.92mm Connector

dc to 18.0 GHz
20 Watts



CONNECTOR: SMK (2.92mm) connector compatible with SMA, 3.5mm, SMK and other 2.92mm connectors. Available connector options are:

Connector Options	Type/Description
1	SMK, Female
2	SMK, Male

WEIGHT: 45 g (1.6 oz)

PHYSICAL DIMENSIONS:

Features

- Self Locking - Internal mechanism eliminates the need for a locking nut. Ideal for phase trimming in densely packaged systems with minimum accessibility.
- Linear - Provides a linear adjustable phase shift to 18 GHz in a very small in-line coaxial package.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 20.0 GHz

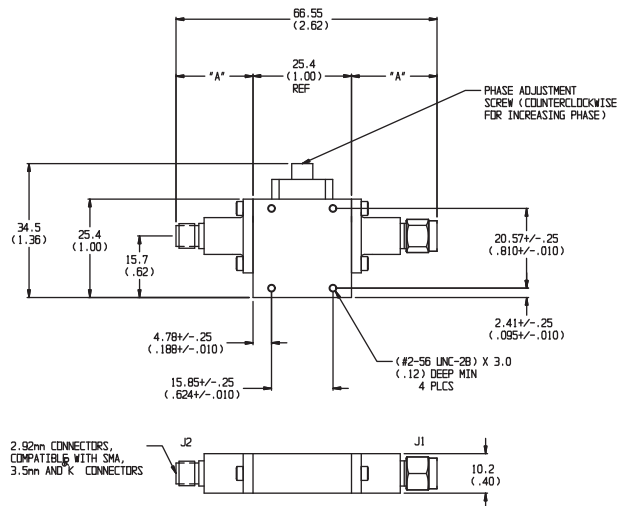
INCREMENTAL PHASE SHIFT: Adjustable to 225° @ 18 GHz; 100° at 9 GHz (typical).

RESOLUTION: 0.5° per turn per GHz, typical (Adjustment shaft has 20 turns for full range).

INSERTION PHASE: 890° @ 10 GHz (Typical)

PHASE VS FREQUENCY: Nominally linear response

INSERTION LOSS: 0.8 dB maximum (0.5 dB typical @ 18 GHz)



CONN TYPE	DIM A
Female	19.81 (0.78)
Male	21.34 (0.84)

NOTE: All dimensions are given in mm (inches) and are nominal ±0.5 (0.02), unless otherwise specified.

MAXIMUM SWR:

Frequency Range (GHz)	SWR
dc - 20	1.5

POWER RATING: 20 watts average

TEMPERATURE RANGE: -55°C to 125°C.

MODEL NUMBER DESCRIPTION:

Example:

917 - XX

Basic Model Number

Connector Options*
1st digit is J1 side
2nd digit is J2 side