



7mm PRECISION SLIDING SHORT

0.9 — 18 GHz



Model 2604A

Description

The model 2604A precision sliding short is a movable, high precision short circuit device in 7mm transmission line (0.1197/0.2756). It is a companion unit to the model 2601 precision sliding termination. This instrument utilizes precision 7mm connectors and a precision 7mm air transmission line with a characteristic impedance of 50 ohms $\pm 0.3\%$. The inherent low reflection and accurate transmission line of this instrument, coupled with an efficient beryllium copper inner and outer conductor contacting finger, provides an excellent movable short circuit. Also a dampening absorber is provided behind the finger in order to suppress back cavity resonance effects. The short circuit is movable over at least one half wavelength at the lowest rated frequency in order to reverse the phase of the reflection.

This sliding short is useful in a wide variety of measurement applications; such as tuning reflectometer systems, establishing a reference plane in a coaxial system, etc. The model 2604A is provided with a 7mm connector.

Specifications

Frequency Range	0.9 to 18.0 GHz
VSWR.....	100:1 minimum ¹
Impedance.....	50 ohms $\pm 0.3\%$
Travel.....	Greater 1/2 wavelength at 0.9 GHz
Length	18-1/2 inches
Connector.....	7mm
Accessories (not provided)	Instrument case, model 2601C ²

¹ Excluding transmission line loss.

² Designed to house 1 each model 2601A and model 2604A.