

7/8 EIA SLIDING TERMINATION



Model 2023B

Description

This Maury precision coaxial sliding termination is a movable low reflection load for terminating 50 ohm 7/8 EIA flange type systems in their characteristic impedance. The broadband low reflection characteristics are achieved by gradually tapering the polycrystalline load. The load is movable over at least one half wavelength at the lowest rated frequency in order to reverse the phase of the reflection and separate it from other reflections present in the system. The model 2023B is an air gap (no dielectric support) termination with a movable center conductor, so that it may be seated tightly against the mating bullet. A Maury model 2002A bullet is provided.

Sliding terminations are particularly useful for making precision measurements when the reflection from the load must be known. Some of these applications are; tuned reflectometer systems, measuring the directivity of directional couplers and evaluating the residual VSWR of slotted lines and other transmission line components.

The model 2023B is designed to operate from 0.9 to 6.0 GHz and exhibit extremely low VSWR characteristic. It is provided with a calibrated scale (in mm) to determine relative position of load and travel and is furnished with a wooden instrument case.

Specifications

Frequency Range	0.9 to 6.0 GHz
Load VSWR	1.08 maximum, 0.9 to 1.5 GHz 1.04 maximum, 1.5 to 6.0 GHz
Power Rating	5 watts cw, 5 kw peak
Travel	Greater 1/2 wavelength at 0.9 GHz
Nominal Impedance.....	50 ohms
Connectors	7/8 EIA flange (improved)