



3.5mm SLIDE SCREW TUNER

Features

- 12 to 34 GHz
- Large Matching Capability
- Low Insertion Loss
- Resettable Design
- Low RF Leakage
- Precision 3.5mm Connectors

Description

Maury model 8041B 3.5mm slide screw tuner provides a convenient method of matching a wide range of impedances to a 50 ohm transmission line system. The tuner consists of a slotted line coaxial section with a sliding carriage upon which two adjustable micrometers are mounted. These 0.001 inch reading micrometers control the variable reactance elements whose magnitudes are changed by varying their depth of insertion into the coaxial line. The phase is varied by sliding the carriage along the line. Carriage travel is greater than 1/2 wavelength at the lowest rated operating frequency. A metric scale and vernier are provided to give precise readout of the carriage position to within 1/10 millimeter. Position locks are provided for both the micrometers and carriage.

In normal operation, only one probe is required to match an impedance having a VSWR of 6:1 or less. Both probes are generally required only at the lowest frequency. The Maury model 8041B tuner is provided



8041B

with 3.5mm connectors, one female and one male. This tuner is designed in the tradition of the finest laboratory equipment and will give years of trouble free service.

Specifications

Frequency Range	12 — 34 GHz
Maximum Correctable VSWR	6:1 VSWR minimum
Power Handling	25W CW 0.25 kW peak
Travel at	
Lowest Frequency	1/2 wavelength minimum
Insertion Loss	0.75 dB maximum
VSWR With Probes	
Retracted	1.10 maximum, 12 — 26.5 GHz 1.15 maximum, 26.5 — 34 GHz
Nominal Impedance	50 ohms
Connectors	3.5mm female and male

Model	Frequency Range GHz	Connectors	Matching Probes	Matching Capability	Length (Inches)
8041B	12 — 34 GHz	3.5mm	2	6:1 Minimum VSWR	2.9