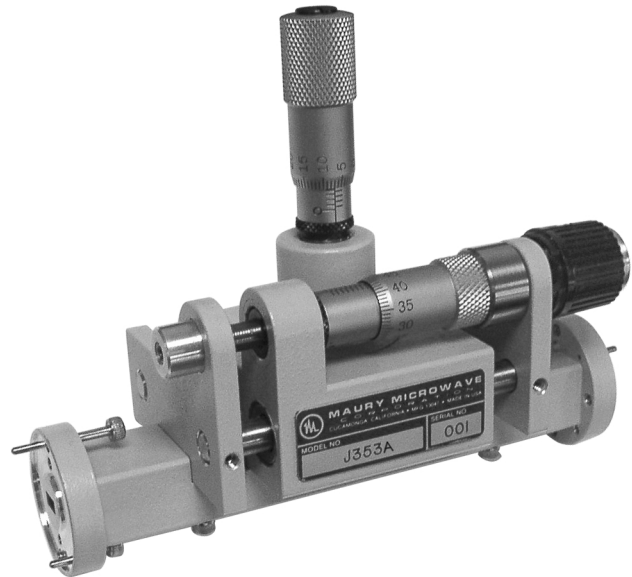


Waveguide Slide Screw Tuners – Standard Matching Range

Features

- ▶ *Slotted Waveguide Transmission Structure*
- ▶ *Single Micrometer-Driven Probe*
- ▶ *Can Be Locked Down To Prevent Movement After Adjustment*



J353A

Description

Maury offers manual tuners that feature slotted waveguide sections and movable carriages supporting micrometer driven probes that extend down into the waveguide. They are valuable tools for optimizing a mismatched load and/or source for maximum power transfer, or for establishing a specific source or load termination condition for device characterization.

They differ from coaxial slide screw tuners in that the reflection phase is set by the position of a single probe along the waveguide, instead of dual probes and slabline/center

conductor assembly of coaxial models.

As is the case with the coaxial slide screw tuners, in these waveguide models magnitude is set by the probe penetration depth, which is controllable to 0.001-inch resolution and can be locked down to prevent movement after adjustment. The carriage is held in constant tension to provide smooth movement and to eliminate the need for a position lock.

Available Models

FREQUENCY RANGE (GHz)	MATCHING RANGE (CORRECTABLE TO < 1.02)	MODEL	EIA WR NUMBER	EQUIVALENT FLANGE	OVERALL BODY LENGTH INCHES (cm)
8.2 — 12.4	VSWR ≤ 20:1	X353	90	UG39/U	6.0 (15.2)
12.5 — 18.0	VSWR ≤ 20:1	P353	62	UG419/U	6.0 (15.2)
18.0 — 26.5	VSWR ≤ 20:1	K353	42	UG595/U	4.38 (11.1)
26.5 — 40.0	VSWR ≤ 20:1	U353	28	UG599/U	4.38 (11.1)
33.0 — 50.0	VSWR ≤ 20:1	J353A	22	UG383/U	4.75 (12.1)

📄 Key Literature: Maury data sheet and 3A-353.