



# MAURY USB AUTOMATED TUNERS

## MT984 Series

Optimized for On-Wafer Broadband Microwave and mm-Wave Applications

8 GHz to 50 GHz Frequency Coverage

High Matching Range for GaN, GaAs, LDMOS, Si, and CMOS Device Characterization

USB interface for Simple, Fast, and Reliable Control

DLL Control for Universal Applications

Ultra-Low Vibration for On-Wafer Applications

Industry's Highest Accuracy Means Your Designs Work Right the First Time

Industry's Best Calibration Gives You More Time to Design

Optional Coverage for the 59 to 67 GHz



### Applications and Benefits Overview

The MT984 series automated tuners are optimized for on-wafer broadband microwave and mm-Wave applications. An integral component of Maury Device Characterization Solutions, these PC-based USB-interface automated tuners are controlled using either Maury' best-in-class Device Characterization Software suite, ATS Version 4, or Maury' DLL suite. ATS Version 4 is an integrated device characterization environment providing front-end and back-end device characterization tools for power and noise characterization. The DLL suite enables direct interface with common programming tools such as Agilent VEE™, NI Labview™, MS Visual Basic & C/C++, and Mathworks MATLAB™. With a tuning resolution in excess of a million impedance points and accuracy better than -50 dB over the entire Smith Chart, Maury automated tuners give you the device characterization answers you need with the accuracy necessary to make engineering decisions with confidence. Typical applications include on-wafer loadpull for X-band, Ku-band, and Ka-band RADAR and Sat-Com applications and source-pull for low noise characterization. Available in 2.4 mm connectors.

### Instrument Specifications

Model	Frequency Range (GHz)	Matching Range <sup>1</sup>		Power Capability <sup>2</sup>	Vector Repeatability (Typical)	G <sub>t</sub> (typical)	VSWR (max)	Insertion Loss <sup>3</sup> (max)	Dimensions
		Minimum	Typical						
MT984A	8 - 50	10:1	20:1	10 W CW 200 W PEP	-50 dB	±0.2 dB	1.1:1	0.6 dB	5.3" x 9.5" x 6.4" (13.5 cm x 24.1 cm x 16.3 cm)

<sup>1</sup>Defined as the maximum VSWR within 20% of the peak VSWR.

<sup>2</sup>Power rated at maximum VSWR.

<sup>3</sup>Probes fully retracted.