

AUTOMATED TUNERS MT981 SERIES



General

The MT981 series automated tuners are precision electro-mechanical instruments capable of matching a wide range of impedances over broad frequency ranges (typically, greater than a decade). The tuners are designed for use in automated applications requiring the ability to match the impedance of a microwave circuit element or to repeatably establish a specific impedance. They have proven valuable in computer driven applications requiring multiple, repeatable impedances covering wide areas of the impedance plane. These tuners are a key element in the Maury **ATS** for device characterization.

Specifications

- Frequency Range See chart
- VSWR Matching Range See chart **[1]**
- VSWR (maximum) 1.05 **[2]**
- Insertion Loss (maximum) 0.3 dB **[3]**
- Step Size (probes) 62.5 microinches
- Step Size (carriage) 786 microinches
- Position Accuracy ± 1 step
- Power Handling 100 W CW, 2.5 kW peak **[4]**
- Connectors Precision 14mm (Maury MPC14) **[2]**
- Size See *Dimensions*

Accessories Provided

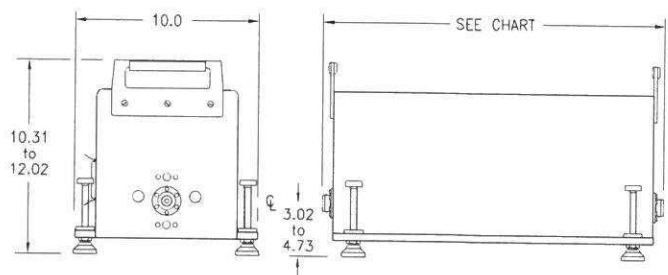
- One each – MT982C, tuner control cable
- Two each – 2607A 7mm to 14mm adapters
- One each – operating manual

[1] Minimum at band edges. Performance at mid-range is significantly better. Contact our Sales Department for details.
[2] Mating compatible and equivalent to the GR900.



PRECISION MEASUREMENT EQUIPMENT

Dimensions



Frequency Range (GHz)	Model	Matching Range (VSWR minimum)	Overall Length inches (cm)
0.25 – 2.50	MT981A01	15:1	36.85 (93.60)
0.40 – 4.00	MT981B		
0.40 – 2.50	MT981B05	30:1	23.03 (58.60)
0.40 – 0.50	MT981B06		
0.50 – 2.20		40:1	
2.20 – 2.50	30:1		

[3] Probes retracted.
[4] At 10:1 matching range.