

PRE-MATCHING PROBE MOUNTS

Series MT902

Features

- *On-Wafer Broadband Pre-Matching*
- *Low Loss Wafer Probe Mount*
- *2.0 to 50.0 GHz*
- *Ultra-High Stability Design*

General

The MT902 series of pre-matching tuners are highly stable, low loss wafer probe mounts used in on-wafer device characterization applications. By extending a wafer probe away from the tuner body, these mounts create additional clearance for proper probe alignment. The ultra-high stability inherent in their design eliminates the possibility of undesired movement during operation.

Specifications

Frequency Ranges .. 2.0 to 26.5 GHz & 8.0 to 50.0 GHz

VSWR Range 10:1 minimum

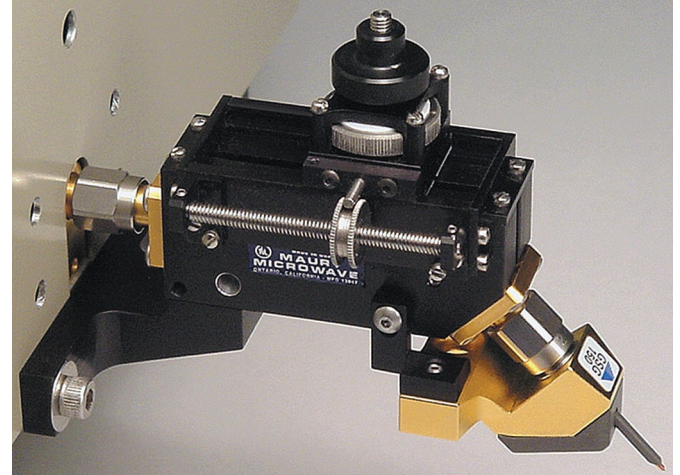
Insertion Loss 0.30 dB¹/0.30 dB²/0.36 dB³/0.45 dB⁴

Repeatability 40 dB minimum

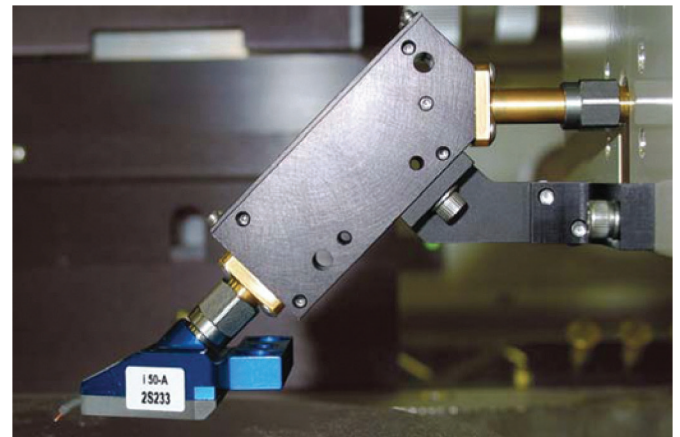
Power Handling 10W CW, 0.5 kW peak

Connectors 3.5mm⁵/2.4mm⁶

¹ MT902C1/2 at 26.5 GHz with probe retracted.
² MT902C5/6 at 26.5 GHz with probe retracted.
³ MT902A1/2/3 at 50 GHz with probe retracted.



MT902A2 Pre-Matching Probe Mount on a 50 GHz model MT984AL01 2.4mm Automated Tuner. This launch configuration is also used on MT902A1 and MT902A3.



MT902A5 Basic Probe Mount on a MT984AL01 50 GHz Automated Tuner. This launch configuration is also used on MT902A6 and MT902A7.

⁴ MT902A5/6/7 at 50 GHz with probe retracted.
⁵ Precision 3.5mm per Maury data sheet 5E-062.
⁶ Precision 2.4mm per Maury data sheet 5E-064.



Available Models

Model	Description	Frequency Range (GHz)	Matching Range	Recommended For Use With Probe Stations
MT902A1	Basic Probe Mount	DC – 50	N/A	Cascade Summit 9000 Cascade M150 Cascade RF1
MT902A2	High frequency pre-matching probe mount	21.5 – 50.0	10:1	
MT902A3	Low frequency pre-matching probe mount	8.0 – 21.5	10:1	
MT902A5	Basic probe mount	DC – 50	N/A	Cascade 11K Cascade 12K Cascade S300
MT902A6	High frequency pre-matching probe mount	21.5 – 50.0	10:1	
MT902A7	Low frequency pre-matching probe mount	8.0 – 21.5	10:1	
MT902C1	Basic probe mount	DC – 26.5	N/A	Cascade Summit 9000 Cascade M150 Cascade RF1
MT902C2	High frequency pre-matching probe mount	7.3 – 26.5	10:1	
MT902C5	Basic probe mount	DC – 26.5	N/A	Cascade 11K Cascade 12K Cascade S300
MT902C6	High frequency pre-matching probe mount	7.3 – 26.5	10:1	