

Low Loss Probe Mounts

DATA SHEET / 2G-035D



Low Loss 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.

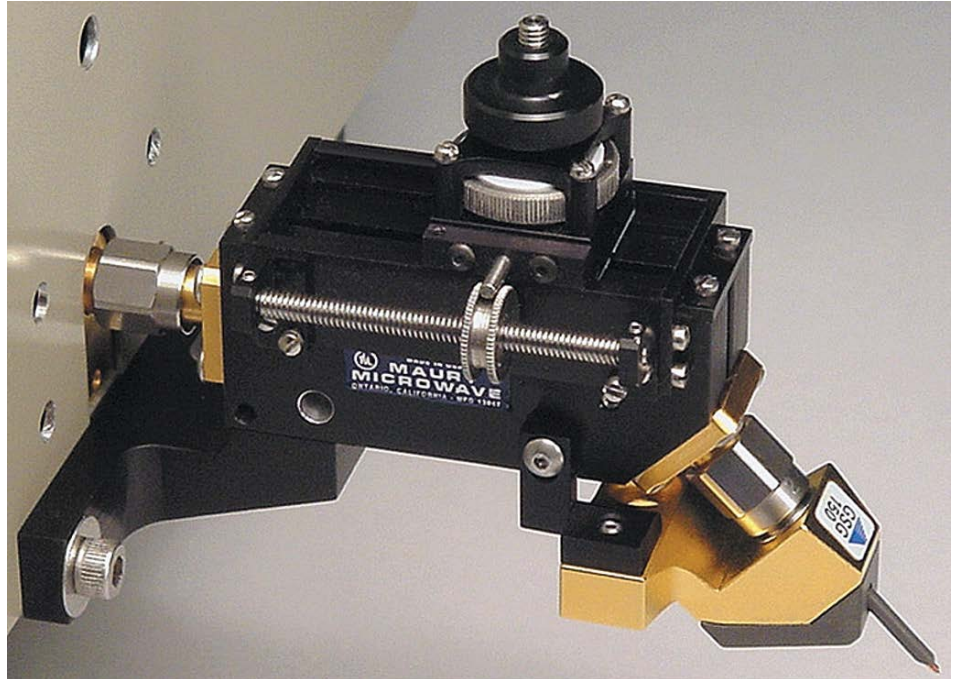
² MT902C5/6 at 26.5 GHz with probe retracted.

³ MT902A1/2/3 at 50 GHz with probe retracted.

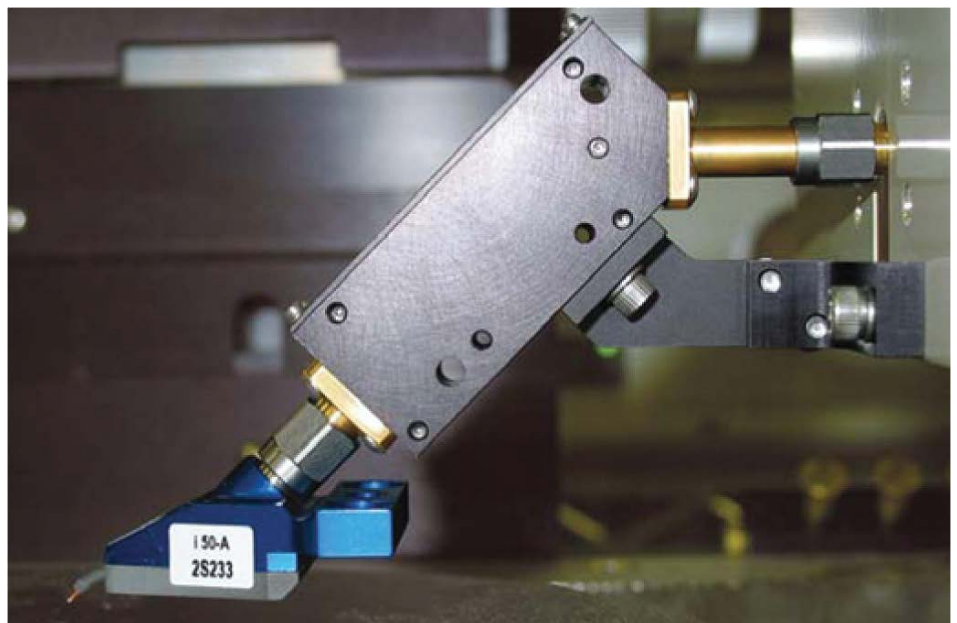
⁴ MT902A5/6/7 at 50 GHz with probe retracted.

⁵ Precision 3.5mm per Maury data sheet 5E-062.

⁶ Precision 2.4mm per Maury data sheet 5E-064.



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.

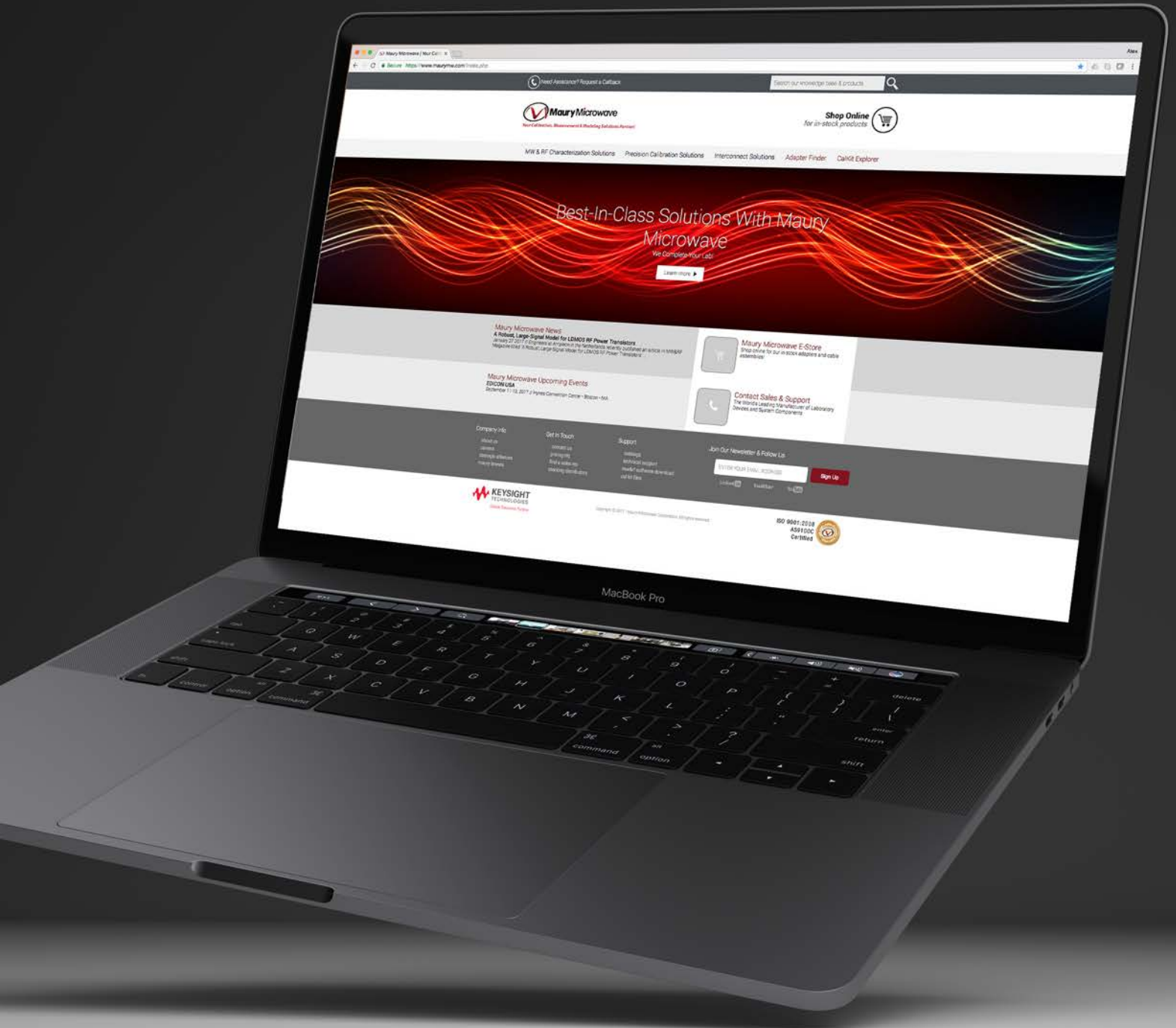


MT902A5 Basic Probe Mount on a MT984AL01, 50 GHz Automated Tuner. This launch configuration is also used on MT902A6 and MT902A7.

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	

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