

Low Loss Probe Mounts

DATA SHEET / 2G-035D



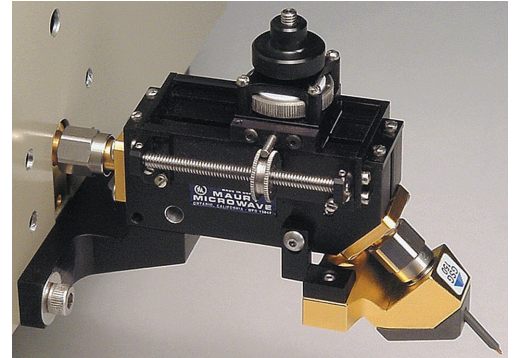
Low Loss Probe Mounts

SERIES MT902

Features

- > On-Wafer Broadband Pre-Matching
- > Low Loss Wafer Probe Mount
- > 2.0 to 67.0 GHz
- > Ultra-High Stability Design

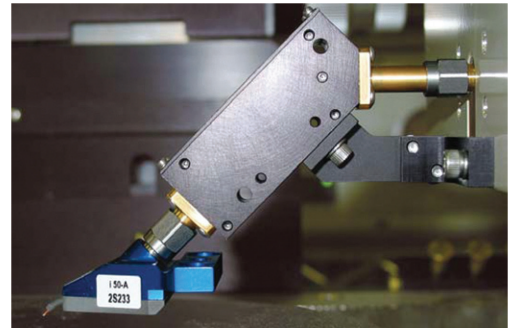
MT902A2 Pre-Matching Probe Mount on a 50 GHz model MT984AL01, 2.4mm Automated Tuner. This launch configuration is also used on MT902A1 and MT902A3.



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.

MT902A5 Basic Probe Mount on a MT984AL01, 50 GHz Automated Tuner. This launch configuration is also used on MT902A6, MT902A7, and MT902D5.



Specifications

Frequency Ranges -- 2.0 to 26.5 GHz & 8.0 to 67.0 GHz

VSWR Range -- 10:1 minimum

Insertion Loss -- 0.30 dB¹/0.30 dB²/0.36 dB³/0.45 dB⁴/0.6 dB⁵

Repeatability -- 40 dB minimum

Power Handling -- 10W CW, 0.5 kW peak

Connectors -- 3.5mm⁶/2.4mm⁷/1.85mm⁸

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 MT902D5 at 67 GHz.

⁶ Precision 3.5mm per Maury data sheet 5E-062.

⁷ Precision 2.4mm per Maury data sheet 5E-064.

⁸ Precision 1.85mm per Maury data sheet 2K-001.

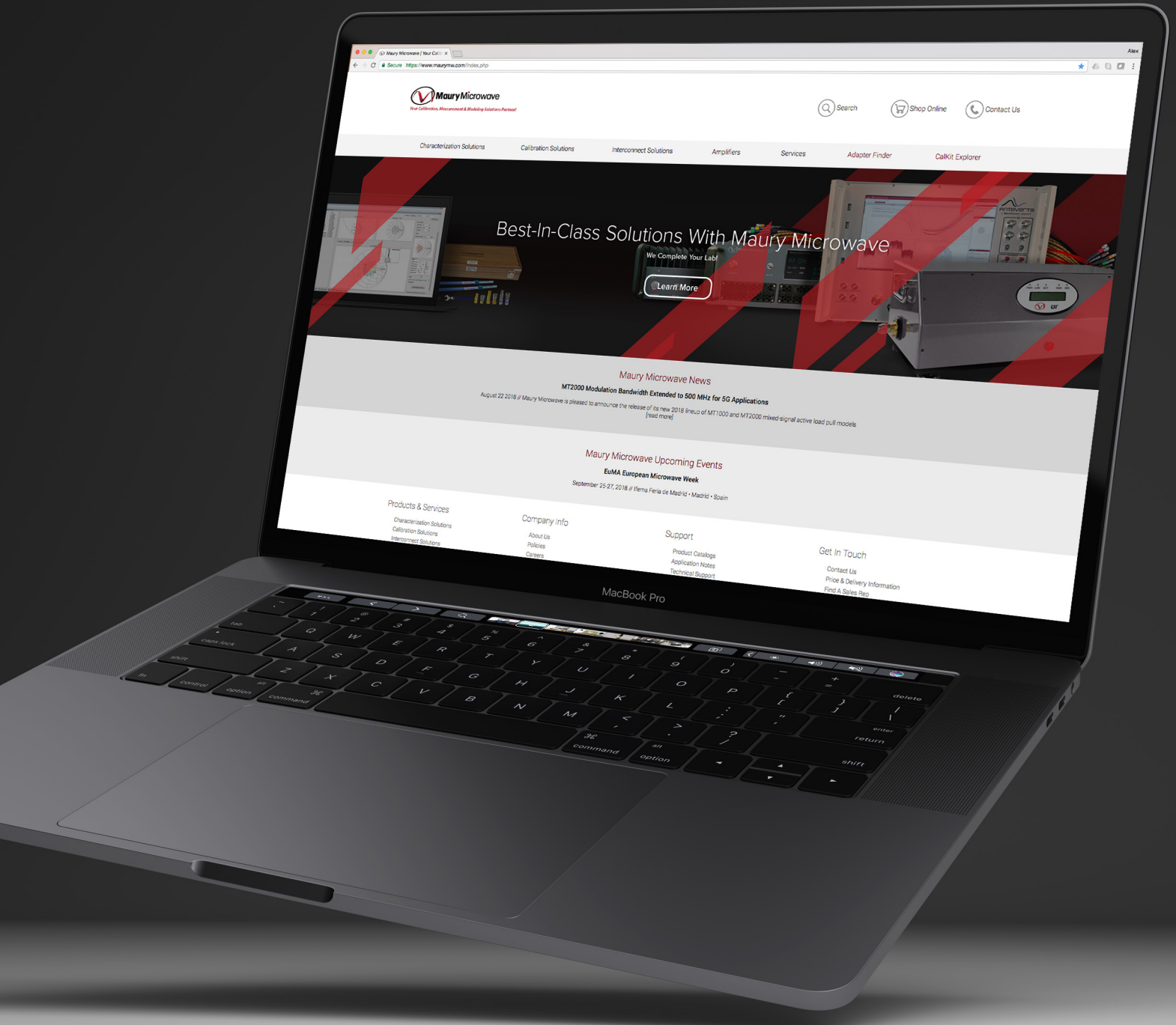
MT902D5 Basic Probe Mount



Available Models

Model	Description	Frequency Range (GHz)	Matching Range	Recommended For Use With Probe Stations
MT902A1	Basic Probe Mount	DC – 50	N/A	Cascade M150 MPI TS150-AIT MPI TS200-THZ MPI TS300-AIT
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 MPI TS150-AIT MPI TS200-THZ MPI TS300-AIT
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 M150 MPI TS150-AIT MPI TS200-THZ MPI TS300-AIT
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 MPI TS150-AIT MPI TS200-THZ MPI TS300-AIT
MT902C6	High frequency pre-matching probe mount	7.3 – 26.5	10:1	
MT902D5	Basic probe mount	DC – 67	N/A	Cascade 11/12K Cascade S300 MPI TS150-AIT MPI TS200-THZ MPI TS300-AIT

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