

Automated Sliding Shorts

0.8 to 18.0 GHz

Features

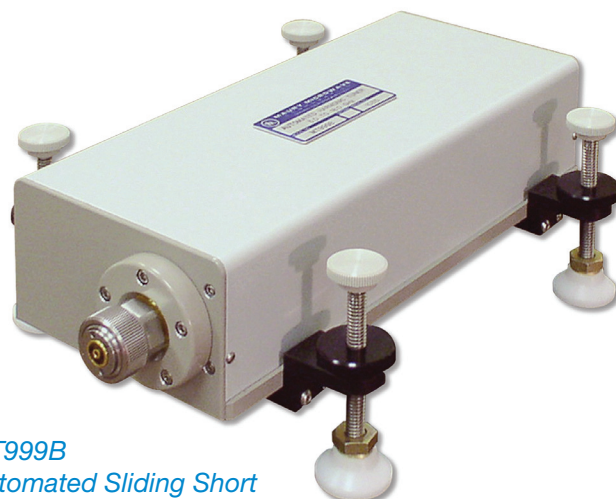
- *Optimized for Low-Cost Harmonic Load-Pull Measurement*
- *50:1 Minimum Matching Range*
- *DLL Environment for Automated Applications*



*MT999A
Automated Sliding Short*

Applications and Benefits Overview

The MT999A and MT999B automated sliding shorts are optimized for use with Maury MT981/MT982 series tuners in applications where harmonic load-pull or tuning measurements with a high mismatch is required. When used with the appropriate triplexer or diplexer, the MT999A/B sliding shorts provide the capability to make the most accurate and reliable harmonic measurements possible. These easy-to-use high-performance tuners deliver a very high mismatch with superb accuracy and reliability over a broad frequency range. The MT999 series automated sliding shorts are designed for use with Maury's family of Device Characterization Software tools including the Maury ATS version 5 (or later) interactive environment and the DLL-based measurement automation environment. The ATS interactive environment is an integrated device characterization environment providing comprehensive calibration and device characterization tools for power and noise optimization. The DLL environment enables direct interface with common programming tools such as Agilent VEE™, NI Labview™, MS Visual Basic & C/C++, and Mathworks MATLAB™.



*MT999B
Automated Sliding Short*

Controller

For optimum performance, the MT1020C ATS Controller is designed to provide a USB interface to non-USB sliding shorts and can be used to control up to two (2) sliding shorts simultaneously. Alternatively, the legacy MT986 GPIB-programmable ATS controller may also be used.

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Specifications

Frequency Range See [Available Models Table](#)
 VSWR Matching Range See [Available Models Table](#)
 MT999A Step Size (Carriage) 625 microinches¹
 MT999B Step Size (Carriage) 208.75 microinches¹
 Connectors Precision 7mm²

Accessories Provided

One (1) each MT982C12 tuner control cable and one (1) operating manual.

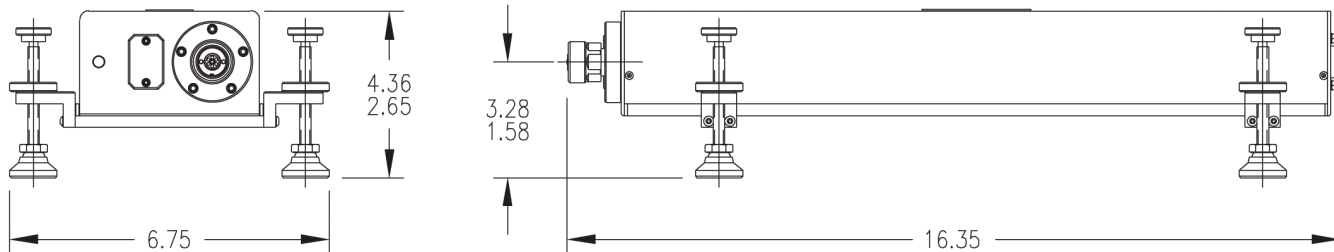
Recommended Accessories

MT1020C USB controller power hub
 2698C2 3/4-in. hex torque wrench
 A028D 7mm connector gage kit

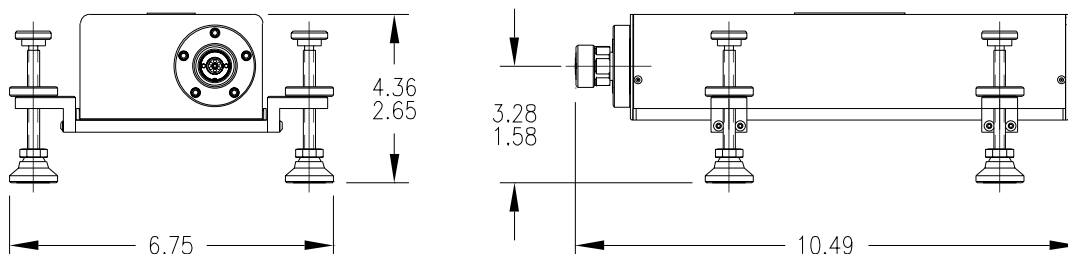
Available Models

Model	Frequency Range (GHz)	Matching Range		Power Capability	Vector Repeatability (Minimum)	Dimensions
		Minimum	Typical			
MT999A	0.8 — 7.5	50:1	90:1	10 W CW 100 W PEP	-40 dB	6.75" x 4.36" x 16.35" (17.1cm x 11.1cm x 41.5cm)
MT999B	3.0 — 18.0					6.75" x 4.36" x 10.49" (17.1cm x 11.1cm x 26.6cm)

Dimensions for MT999A – Inches



Dimensions for MT999B – Inches



¹ Based on 1/2 stepping the drive motors.

² Precision 7mm male per Maury data sheet 5E-060.