Automated Sliding Shorts

DATA SHEET / 4T-076



Automated Sliding Shorts

0.4 TO 18.0 GHZ

MT999A 7mm Automated Sliding Short

MT999D 7mm Automated Sliding Short

MT999B 7mm Automated Sliding Short



Features

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

Applications and Benefits Overview

The MT999 series 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/D sliding shorts provide the capability to make the most accurate and reliable harmonic measurements possible.

These easy-to-use, high-performance shorts deliver a very high mismatch with superb accuracy and reliability over a broad frequency range using one of three Maury Software Solutions; Maury's MT930 series IVCAD Advanced Measurement and Modeling Software; Maury's Device Characterization Software suite (ATS version 5 or later); or Maury's DLL environment.

The MT930 IVCAD software suite is the most advanced measurement and modeling software in the industry, with support for multiple load pull techniques including traditional load pull using external instrumentation, VNA-based load pull, active load pull and hybrid load pull.

The ATS software is an integrated device characterization suite providing front-end and back-end device characterization tools for power and noise characterization.

The DLL environment enables direct interface with common programming tools such as Agilent VEE™, NI LabVIEW™, MS Visual Basic & C/C++, and Mathworks MATLAB™.

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) shorts simultaneously. Alternatively, the legacy MT986 GPIB-programmable ATS controller may also be used.

Specifications

Frequency Range -- See Available Models Table VSWR Matching Range -- See Available Models Table Step Size (Carriage)¹ -- See Available Models Table

Accessories Provided

One (1) operating manual.

Recommended Accessories

MT1020C -- USB controller power hub 2698C2 -- 3/4-in. hex torque wrench A028D -- 7mm connector gage kit MT999C11 -- Single 1m Cable MT999C12 -- Single 2m Cable MT999C13 -- Dual 1m Cable

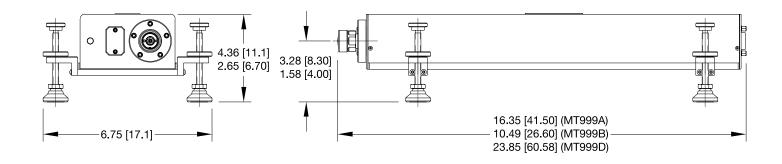
Available Models

Connectors: -- Precision 7mm²

Model	Frequency Range (GHz)	Matching Range		Power	Vector	Stop Sizo	Phasa Changa
		Minimum	Typical	Capability	Repeatability (Minimum)	Step Size (Microinches) ¹	Phase Change Per Step
MT999A	0.8 – 7.5	50:1	65:1	10 W CW 100 W PEP	-40 dB	625	0.29° @ 7.5 GHz
МТ999В	3.0 – 18.0					207.5	0.23° @ 18 GHz
MT999D	0.4 – 4.0				-35 dB	625	0.15° @ 4 GHz

¹ Based on 1/2-stepping the drive motors.

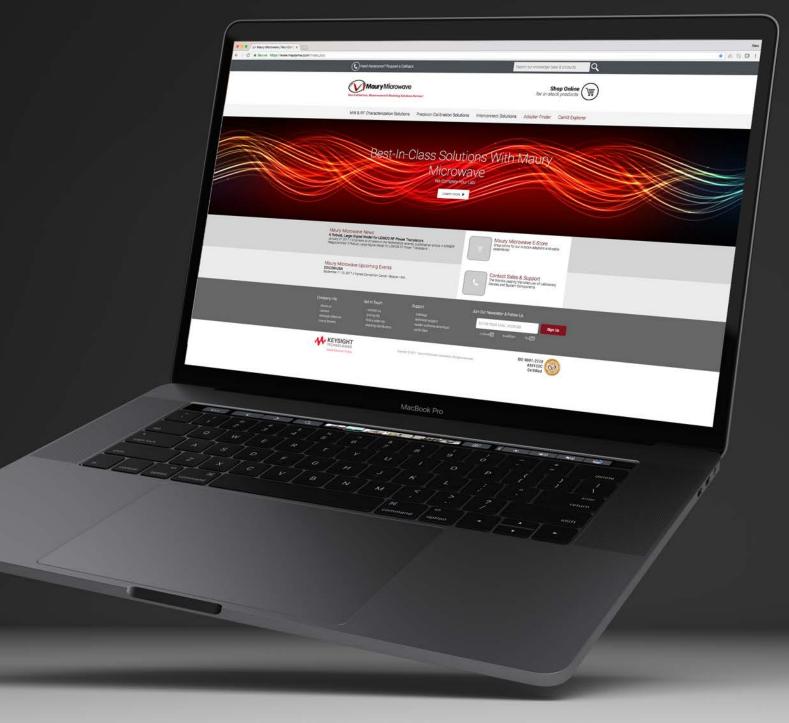
Dimensions - Inches



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

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