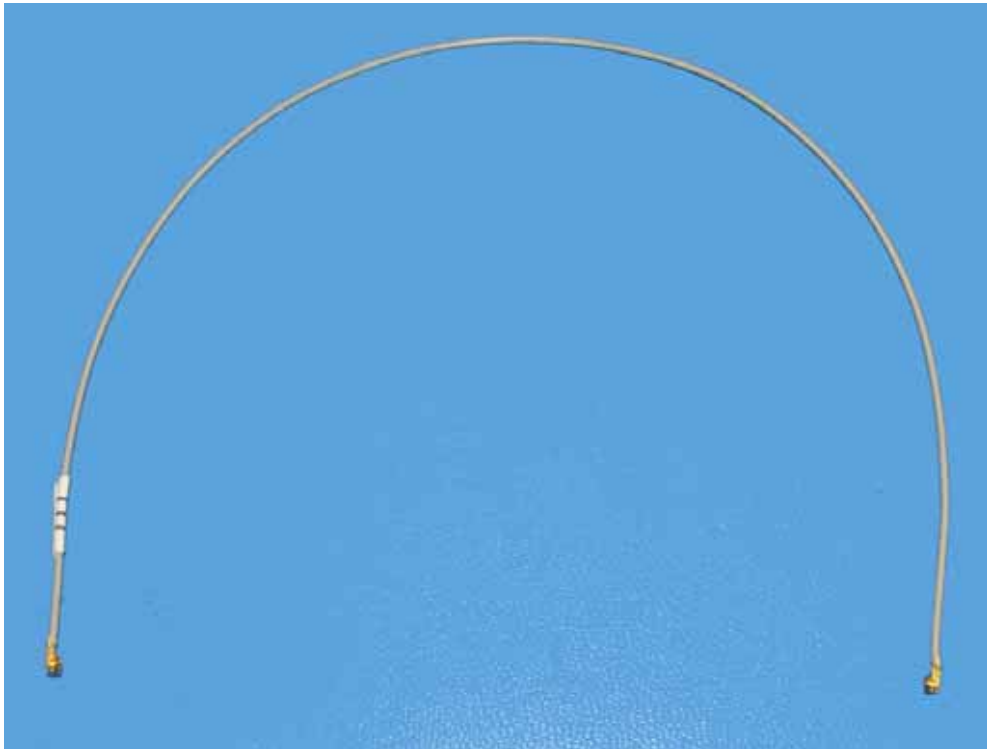




RF Characterization Report

MH113-MH1RP-MH1RP



Description:
MH113, Micro RF Cable Assembly,
1.13mm Cable Diameter

Series: MH113, RF Cable Assembly, 50 Ohm,
Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

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Series: MH113, RF Cable Assembly, 50 Ohm,
Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

Test Setup Information

Scope:

To perform characterization tests, Insertion Loss, Return Loss and Voltage Standing Wave Ratio.

Product Description:

Part Number	Length	Qty	Termination – End 1	Termination – End 2
MH113-MH1RP-MH1RP	305mm	5	MH1, Right Angle Plug	MH1, Right Angle Plug
		1.13mm Dia.		

Test Calibration:

Calibration is performed using the 50 ohm Agilent mechanical calibration kit, PN 85052D. Yellow line depicted in picture below represents the approximate calibrated reference plane at Ports 1 and 2. Residual effects from any uncalibrated adapter interface are inclusive to all measurements.



Series: MH113, RF Cable Assembly, 50 Ohm,

Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

Adapter Use:

Each port uses at least one adapter capable of mating to the assembly under test. Any supplementary adapter will contribute additional electrical characteristics to the measured data. Any use of additional adapters is noted.

SMA (m) to MH1 (f), QTY. 2, Samtec Part# CCS-179666-01-CN, Range: 0-6 GHz

Definition of Assembly under Test:

The performance characteristics include the interface with adapters.

Port Designations:

The connector attached to port 1 of the VNA is "End 1" from the part number callout. Insertion Loss is incident power transmission S21. Return Loss / VSWR is incident reflected power S11.

Legend for Plots:

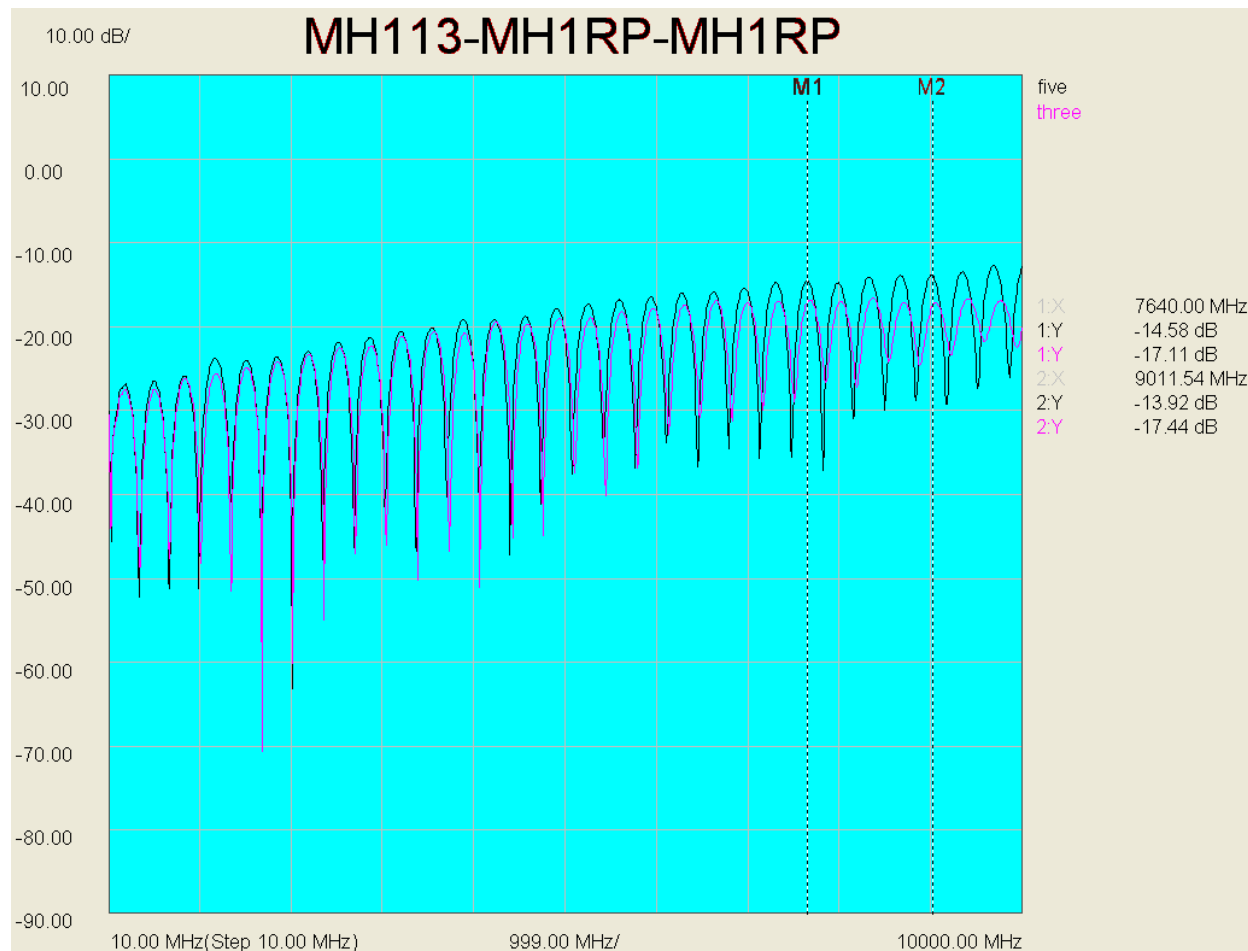
Five samples are tested. 5 – MH113-MH1RP-MH1RP-0305 respectively labeled 01 through 05. Each sample is 305 mm in length. Graphical representations include the worst and best case responses of Insertion Loss, Return Loss and Standing Wave Ratio. Sample five is the best case response. Sample three is the worst case response. Waveform representations of samples 01, 02, & 04 are available but not included in this report.



Series: MH113, RF Cable Assembly, 50 Ohm,
Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

Results Summary

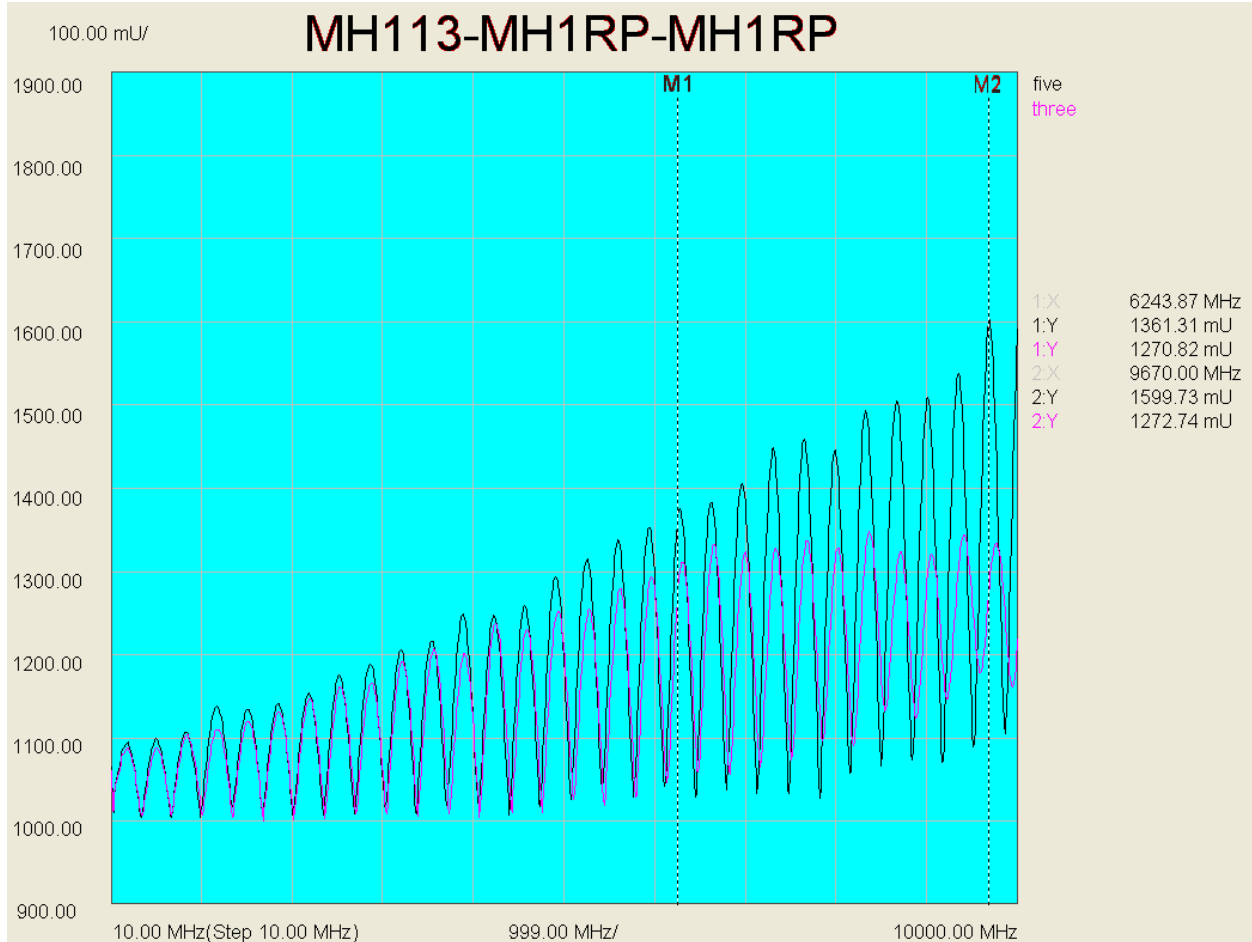
Return Loss



Series: MH113, RF Cable Assembly, 50 Ohm,

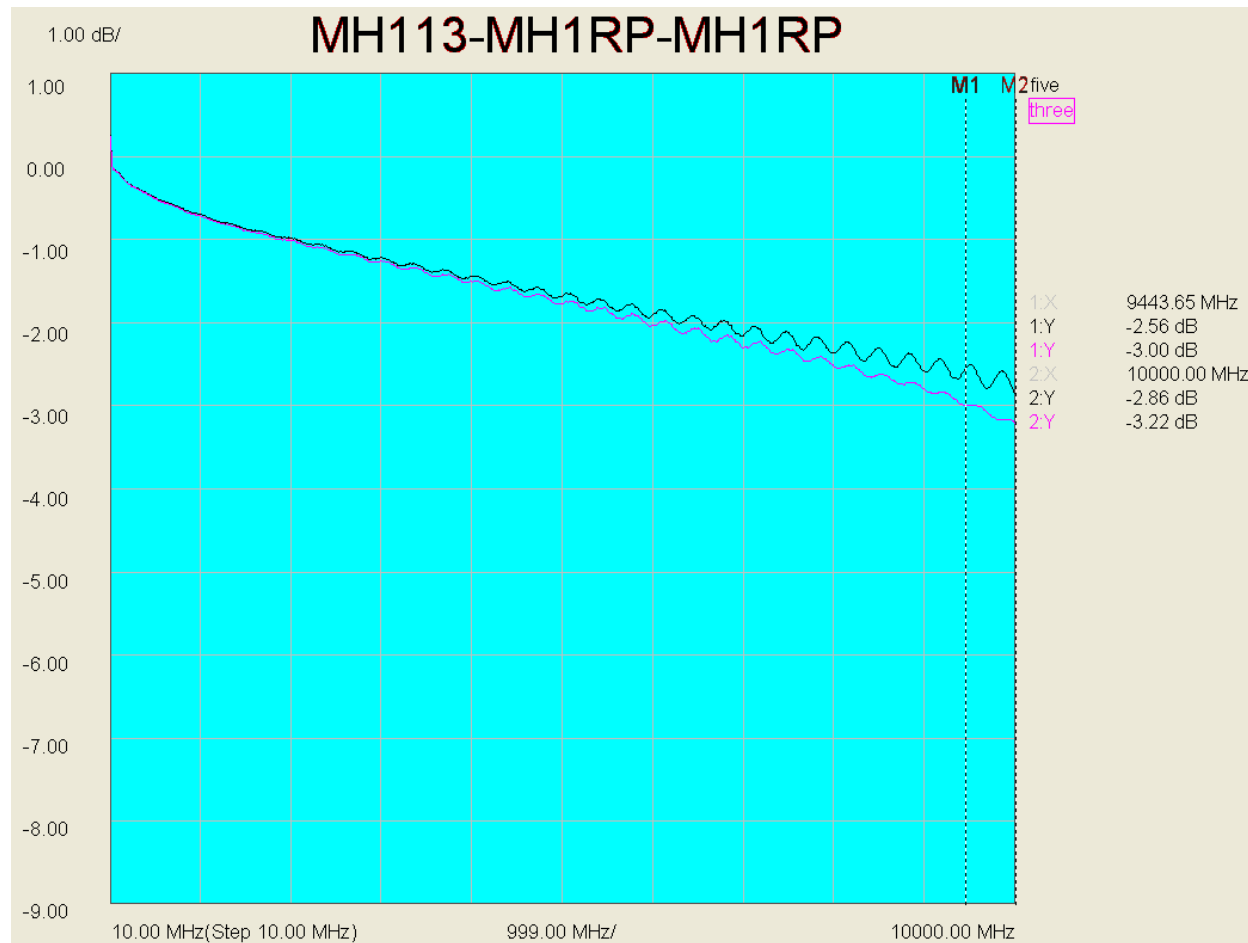
Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

SWR



Series: MH113, RF Cable Assembly, 50 Ohm,
Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

Insertion Loss



Series: MH113, RF Cable Assembly, 50 Ohm,

Description: End 1: MH1 RA Plug, End 2: MH1 RA Plug, 1.13mm Coaxial Cable Diameter

Instrument Setup:

Network Analyzer	Agilent E8364B PNA/N4421B Series (10 MHz -50GHz) Default 2-Port Configuration
Mechanical Calibration Kit	85052D
Averaging Factor	0
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	26.5 GHz
Points	2000
Calibration File	4P_10m-26.5g_3.5f-pna1_3.5f-ts2_sma-pna2_sma-ts4
Test Cables	Gore 0Z0CJ0CK0360

Test Environment:



(A Typical set-up, actual part not depicted.)