



## RF Characterization Report

ACP-16-04-H-00.26-T-T-M-1

ACP-16-04-H-00.62-T-T-M-1

ACP-16-04-H-01.12-T-T-M-1



**Description:**  
**ACP-16, SEALED ACCLIMATE™ METRIC SHELL SIZE 16 PLUG**  
**CABLE ASSEMBLY**

**Series:** ACP-16, SEALED ACCLIMATE™ SIZE 16 PLUG CABLE ASSEMBLY

**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

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**Series:** ACP-16, SEALED ACCLIMATE™ SIZE 16 PLUG CABLE ASSEMBLY


**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316


**Test Setup Information**


**Scope:**

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

**Product Description:**

Part Number	Length	Qty
ACP-16-04-H-00.26-T-T-M-1	.26m	4
		

Part Number	Length	Qty
ACP-16-04-H-00.62-T-T-M-1	.62m	4
		

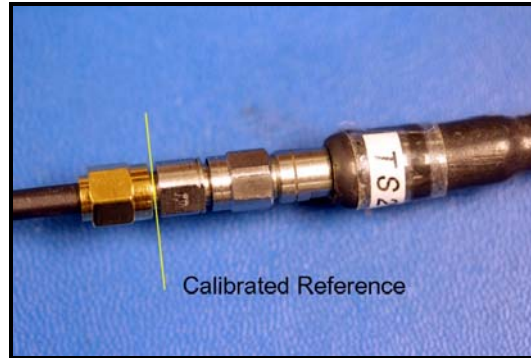
Part Number	Length	Qty
ACP-16-04-H-01.12-T-T-M-1	1.12m	4
		

**Test Calibration:**

Calibration is performed using the 50Ω 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 non-calibrated adapter interface are inclusive to all measurements.

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### **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.

3.5mm SMA (f) to 2.4mm SMA (f), QTY. 2, Supplier: DynaHz, 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 S12. Return Loss / VSWR is incident reflected power S11.

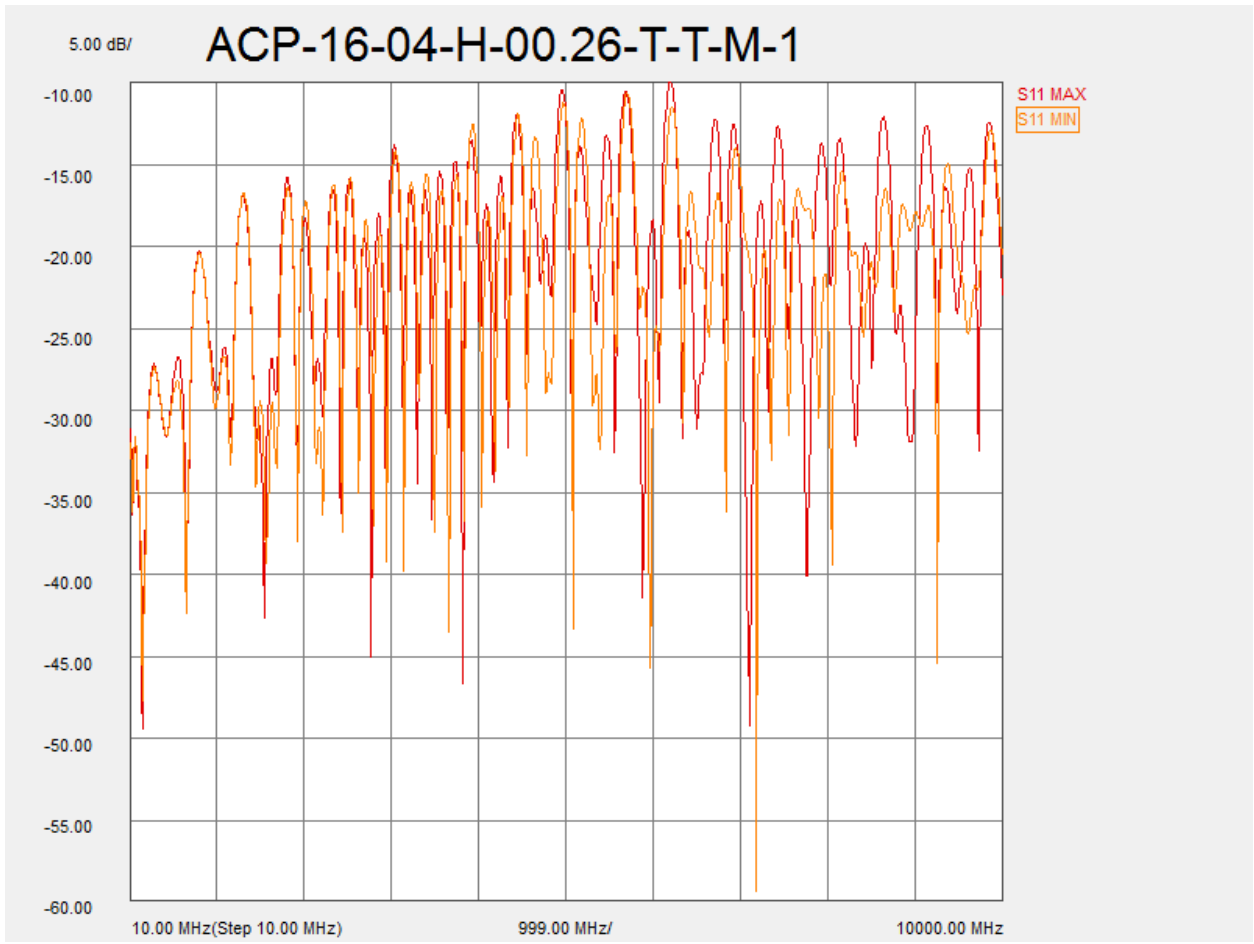
### **Legend for Plots:**

For each 4 sample batch, a min and max value is chosen for each of the following measurements: Return Loss, SWR and Insertion Loss via inspection.

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### ACP-16-04-H-00.26-T-T-M-1 Results

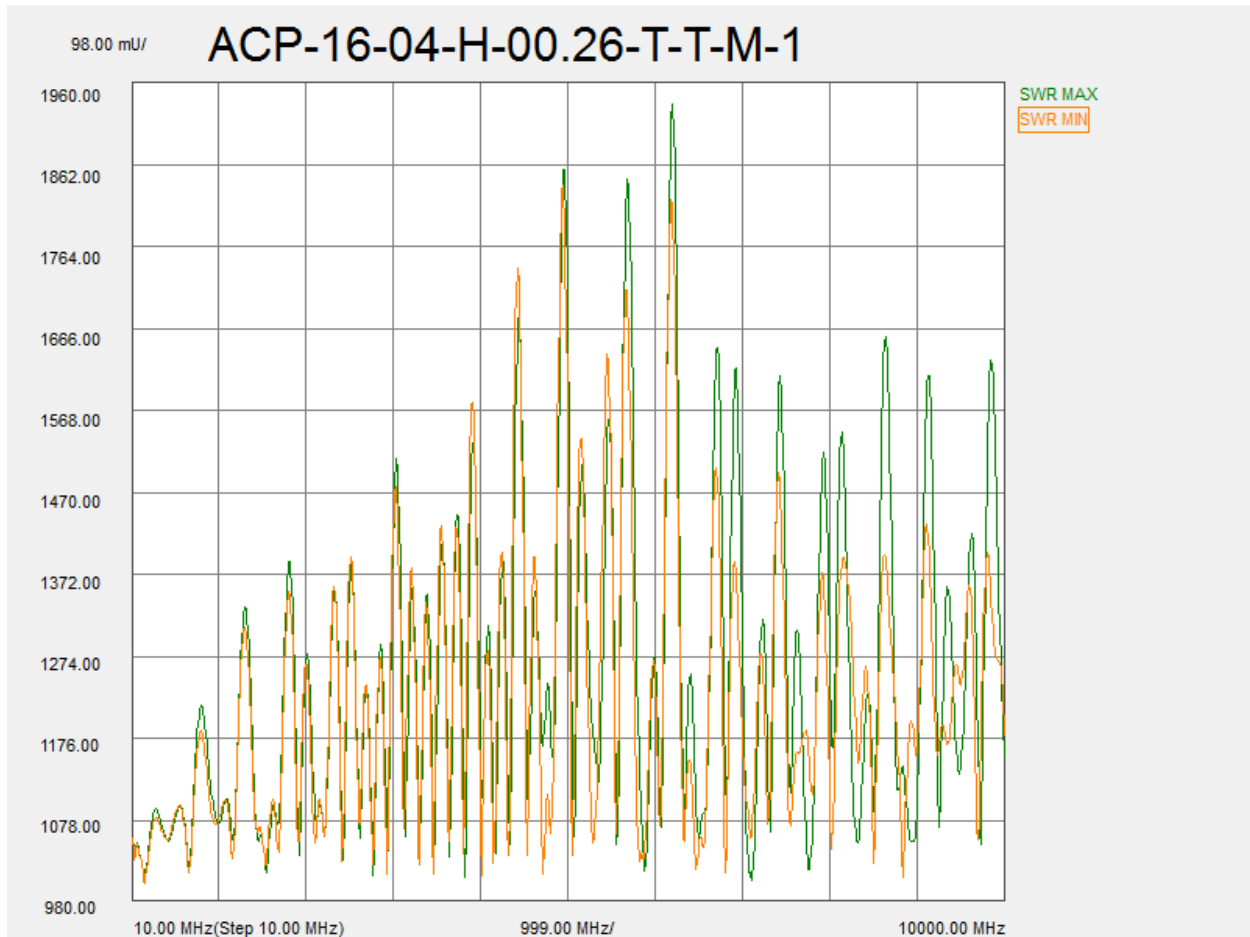
#### Return Loss



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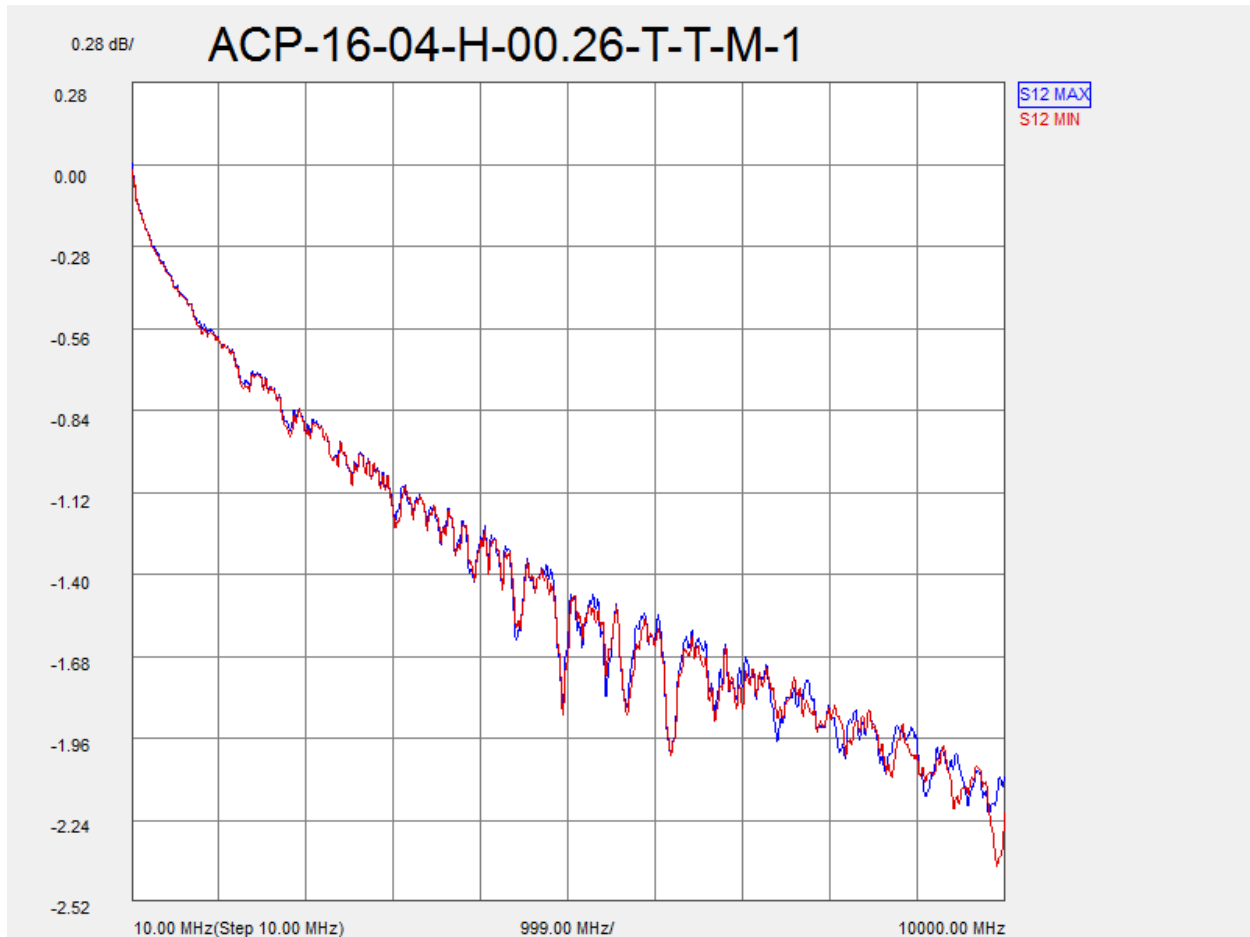
SWR



**Series:** ACP-16, SEALED ACCLIMATE™ SIZE 16 PLUG CABLE ASSEMBLY

**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

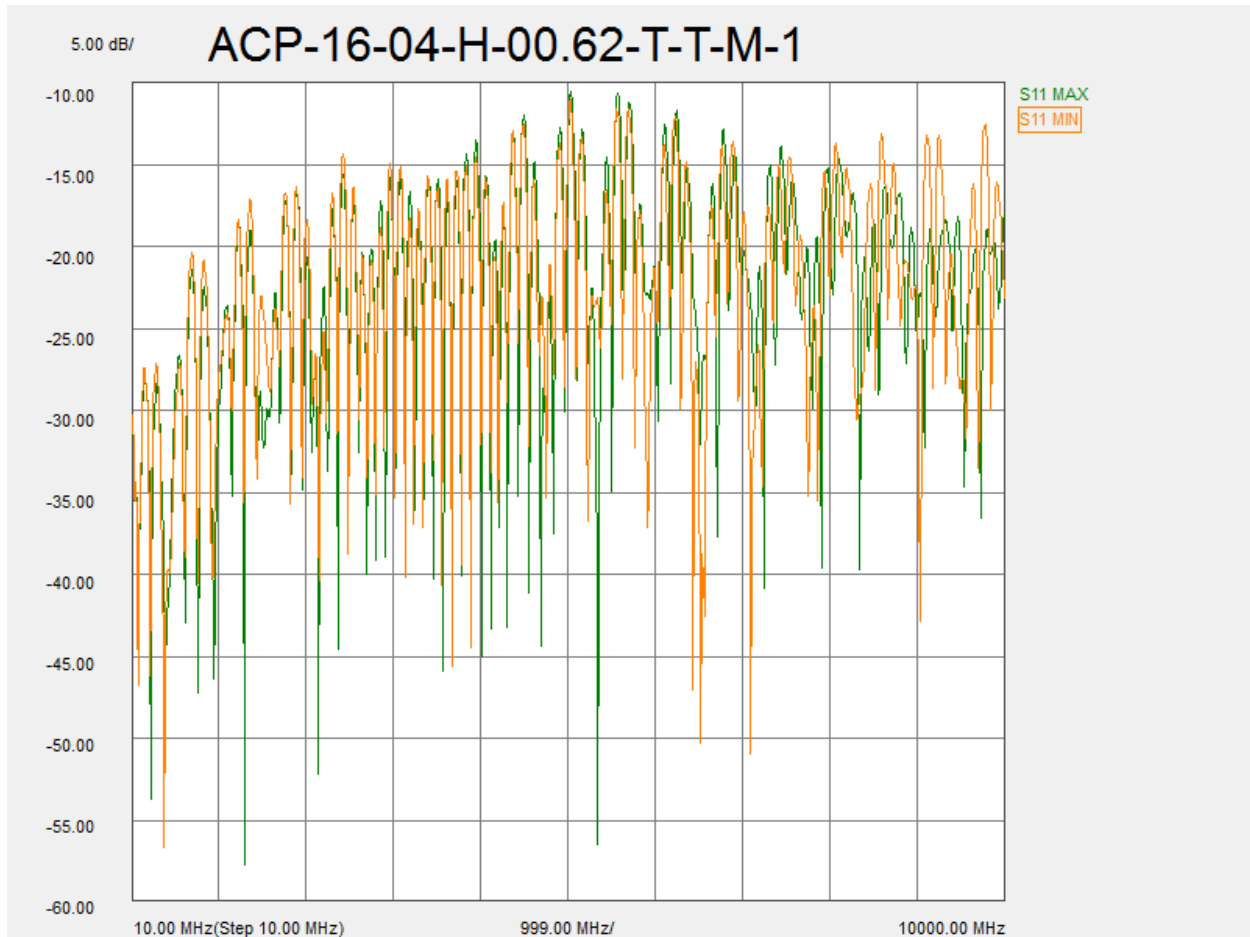
### Insertion Loss



**Series:** ACP-16, SEALED ACCLIMATE™ SIZE 16 PLUG CABLE ASSEMBLY  
**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

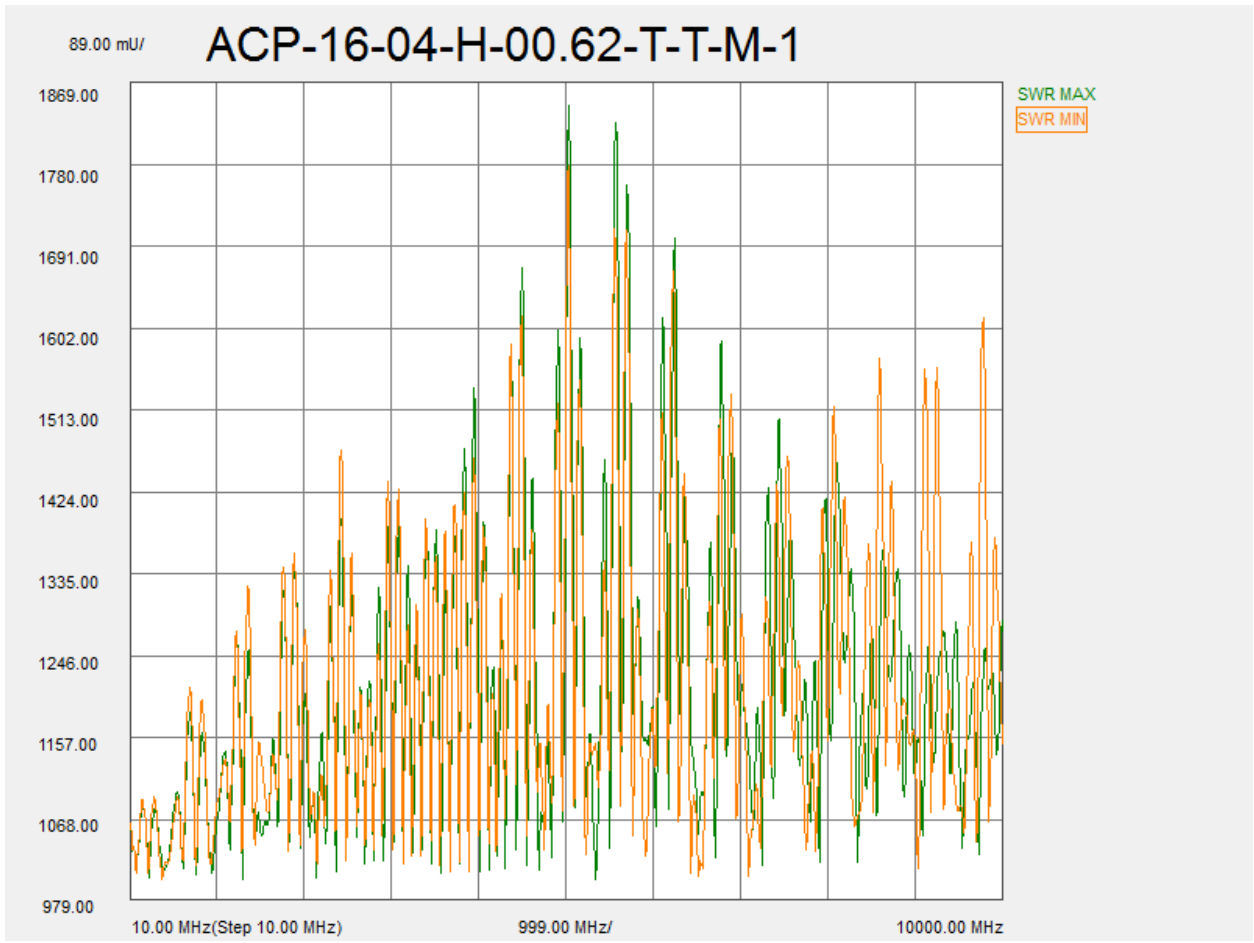
### ACP-16-04-H-00.62-T-T-M-1 Results

#### Return Loss



**Series:** ACP-16, SEALED ACCLIMATE™ SIZE 16 PLUG CABLE ASSEMBLY  
**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

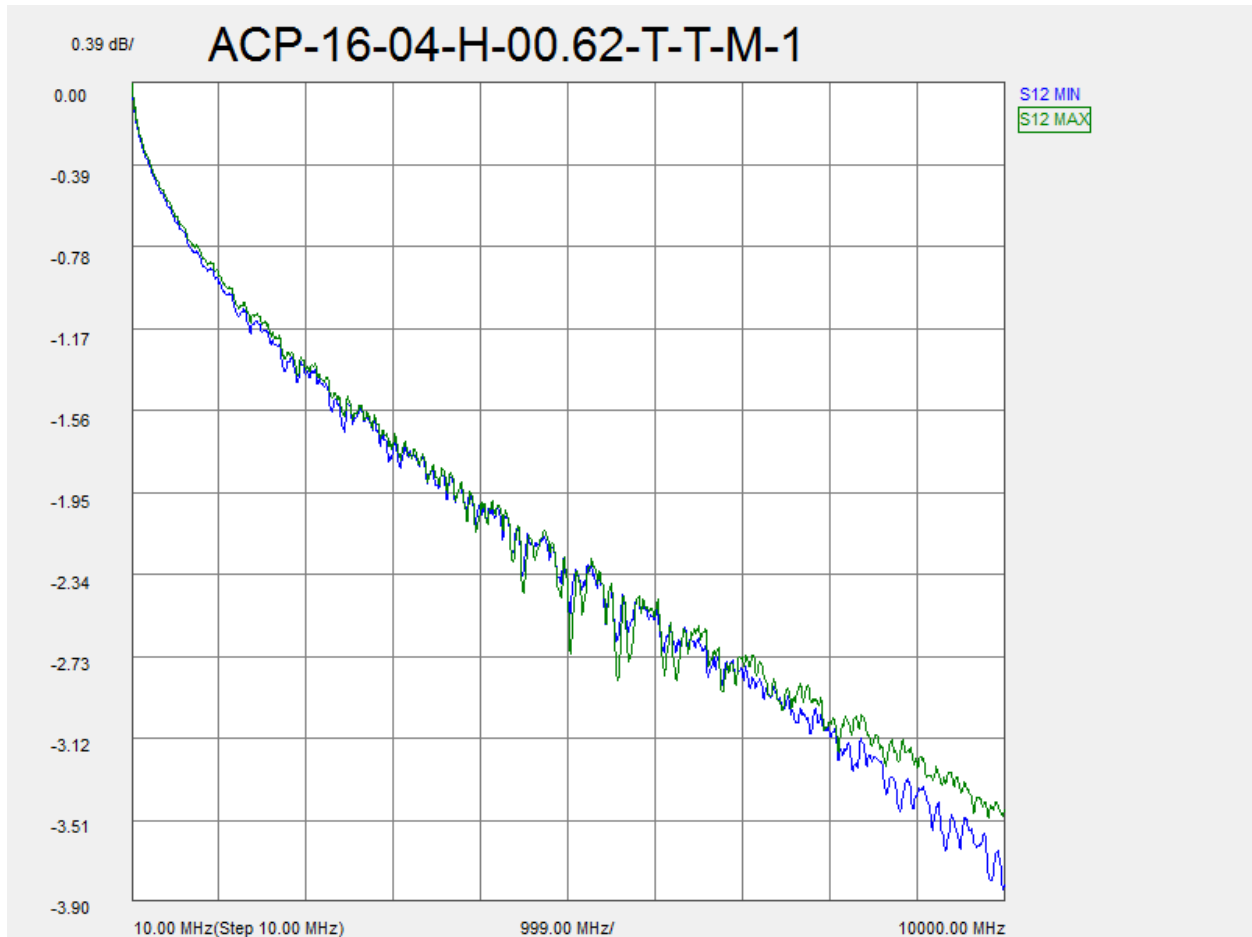
SWR



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**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

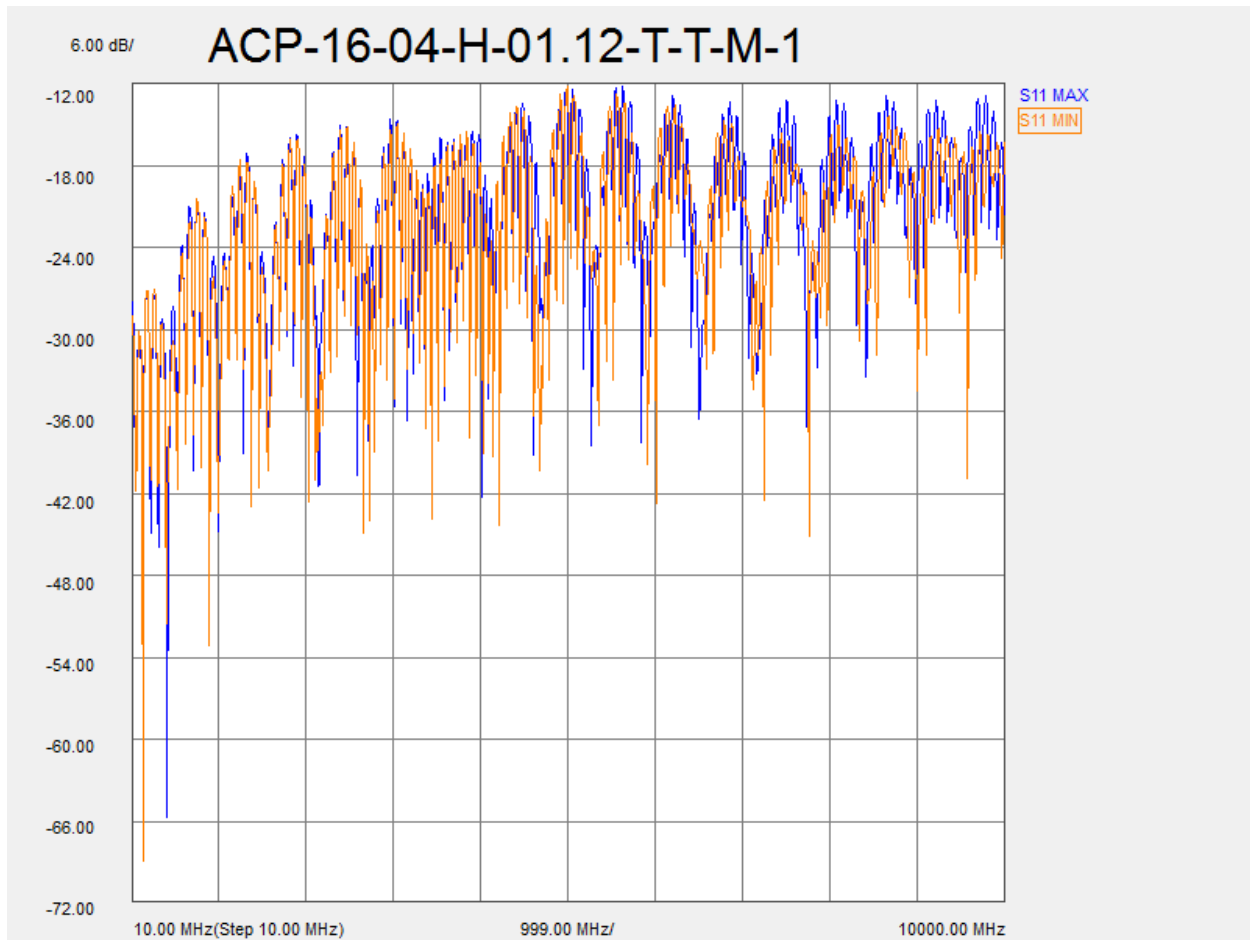
Insertion Loss



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**Description:** 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

### ACP-16-04-H-01.12-T-T-M-1 Results

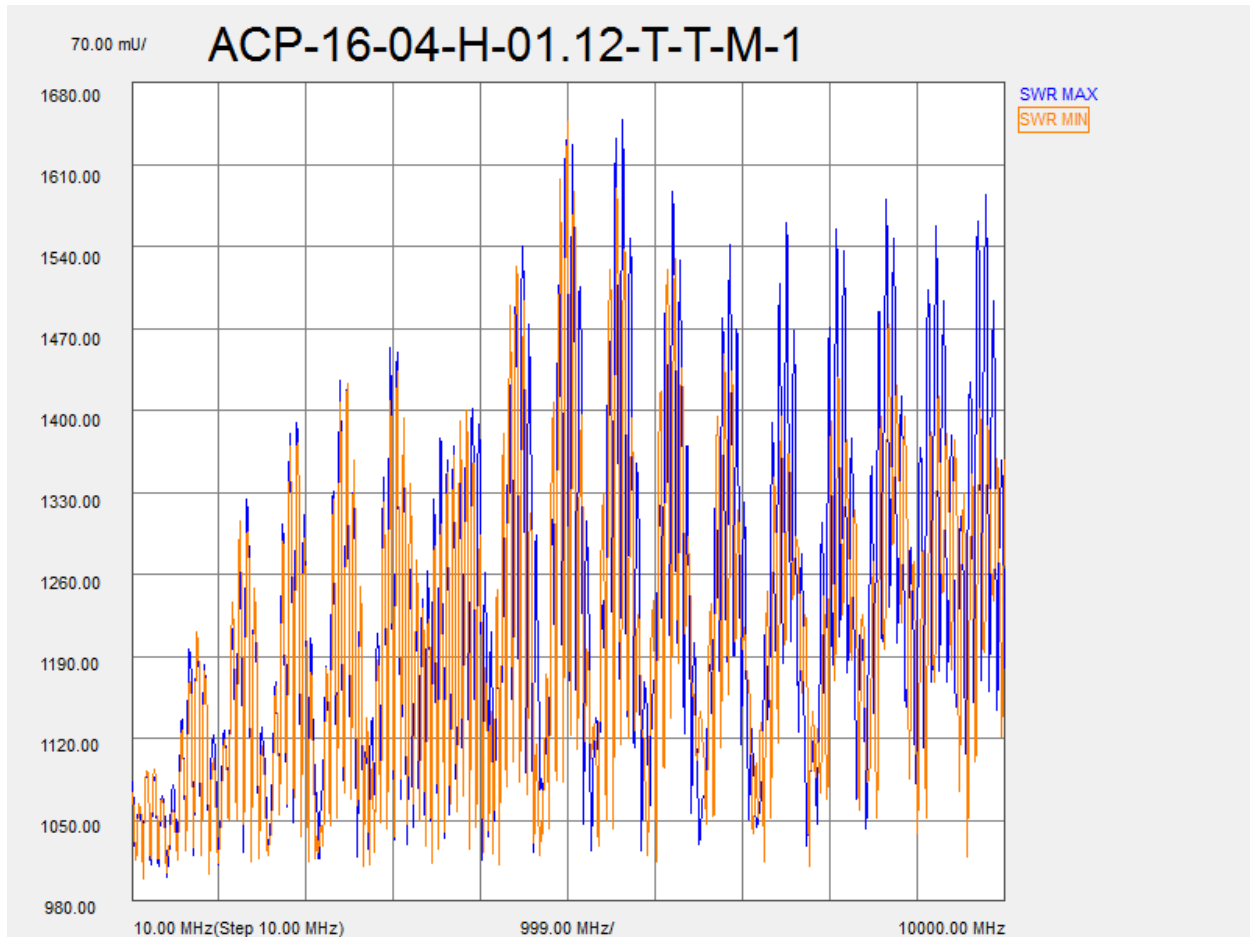
#### Return Loss



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Description: 2 - 1mm socket/terminal and 2 - RF socket/terminal RG316

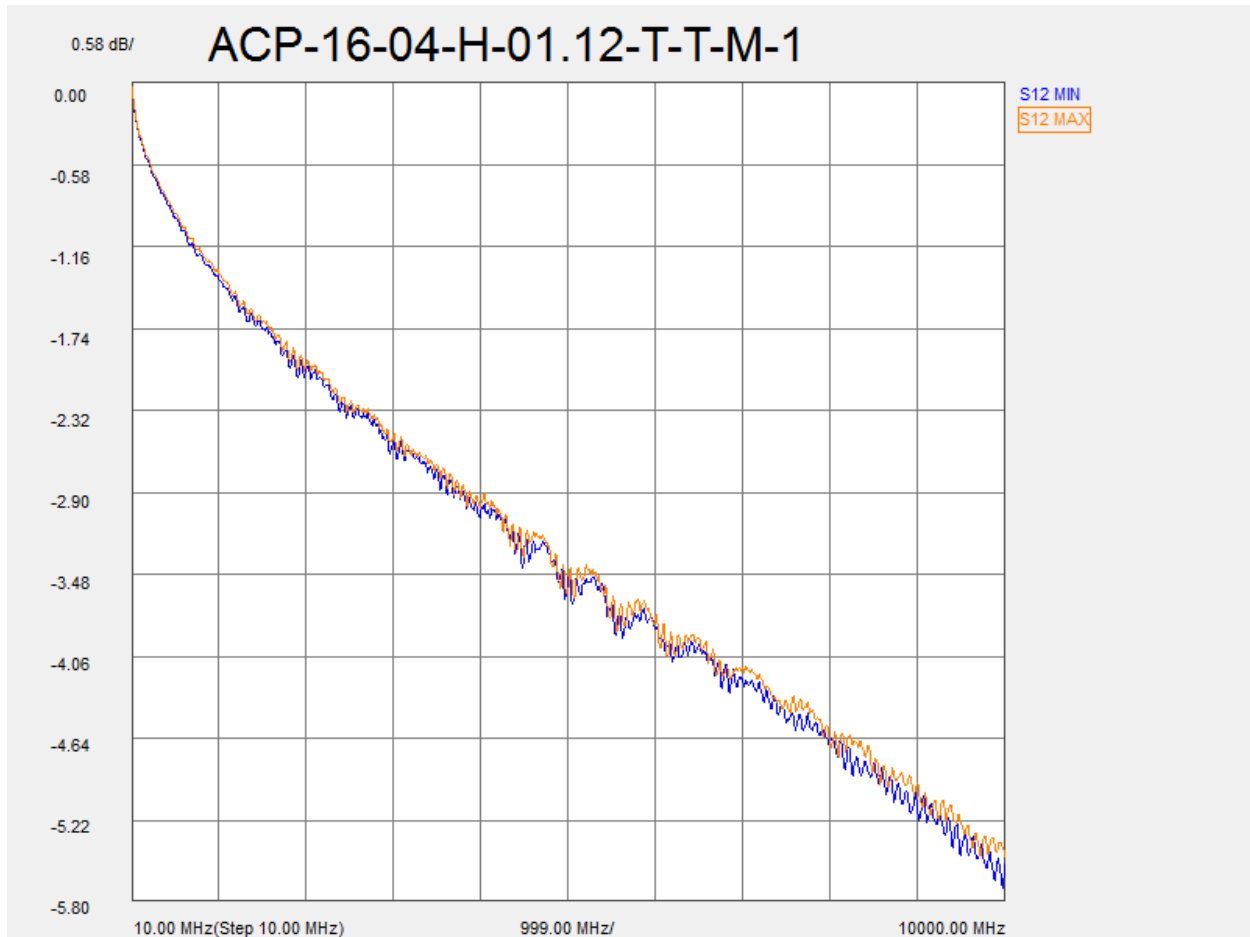
SWR



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Insertion Loss



**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	10 GHz
Points	2000
Calibration File	2P_10GHz_8505D_PNA1_3.5MM_TS2_3.5MM_05312012
Test Cables	Gore 0Z0CJ0CK0360

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**Test Environment:**



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