



RF Characterization Report

MH081-MH4RP-01BJ1-0100



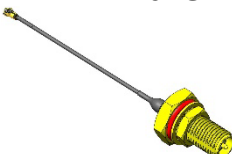
MH081-MH4RP-01BJ2-0100



MH081-MH4RP-01SB1-0100



MH081-MH4RP-01SR1-0100



Test Date: 18 Mar 2020

Description

Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

Series: MH081**Description:** Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

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Series: MH081

Description: Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for MH081 micro high frequency RF cable assembly.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5230C and N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	20 GHz
Points	2000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed for N5230C using the Keysight 3.5mm Mechanical Calibration kit, A Keysight electrical calibration is performed for N5227B using the Keysight ECAL 4694A.

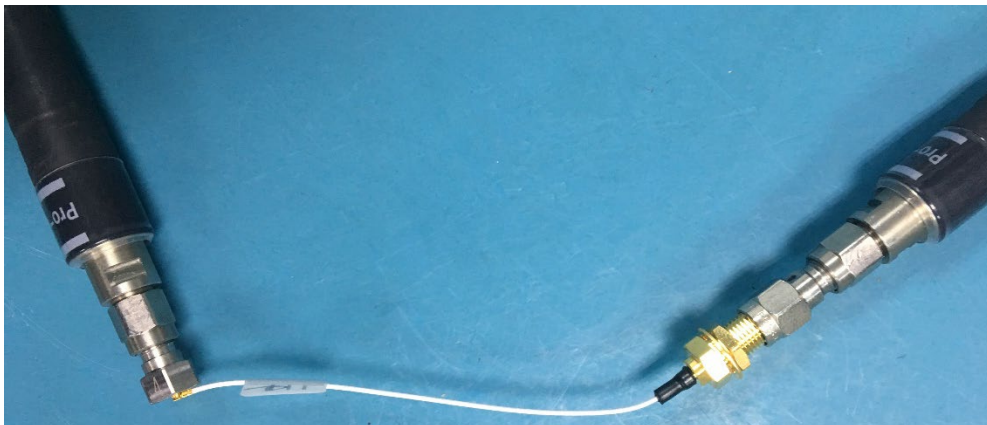
Calibration Kit	Keysight 85052 D 3.5mm Mechanical Calibration kit and ECAL 4694A
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Adapter Use:

90449-001 MHF4 Male to SMA Male and PE9533 SMA Female to RP SMA Male adapters were used for the measurements of MH081-MH4RP-XXXXX-0100. The adapters effects are included in the test results.

Series: MH081**Description:** Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable**MH081-MH4RP-XXXXX-0100 Test Definition**

Part Number	End 1	End 2
MH081-MH4RP-01BJ1-0100	MHF4 Plug	SMA Jack
MH081-MH4RP-01BJ2-0100	MHF4 Plug	SMA Reversed Jack
MH081-MH4RP-01SB1-0100	MHF4 Plug	SMA Jack
MH081-MH4RP-01SR1-0100	MHF4 Plug	SMA Reversed Jack

Connector Under Test:

Series: MH081

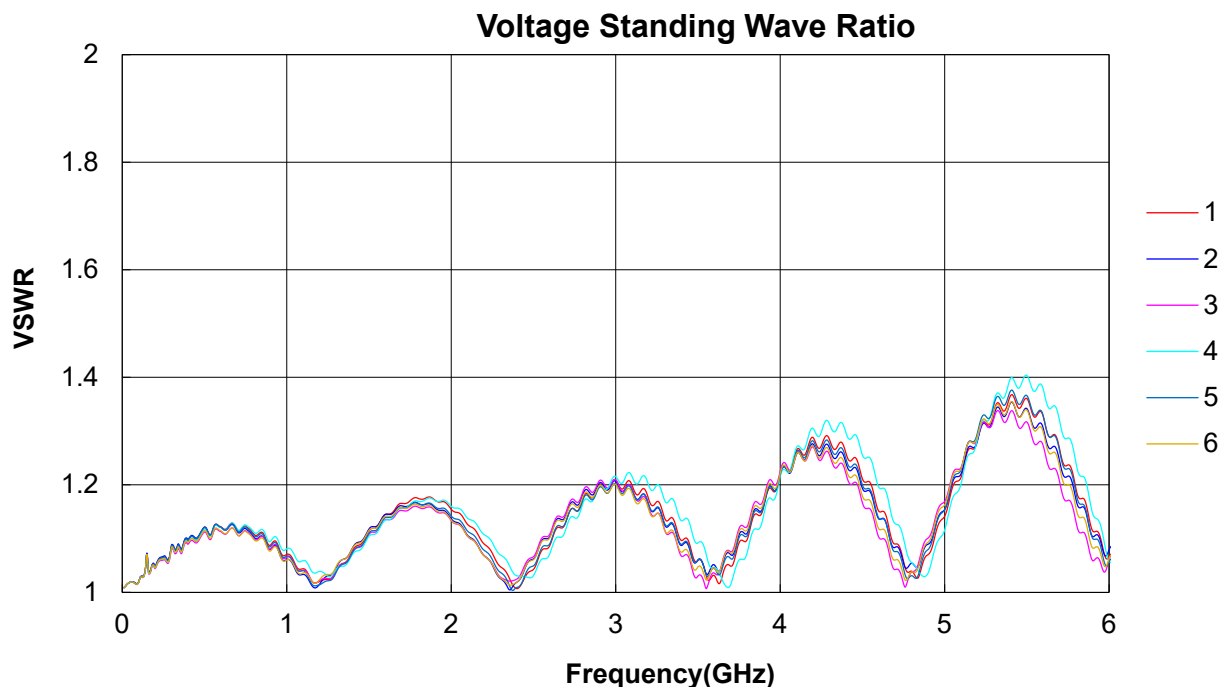
Description: Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

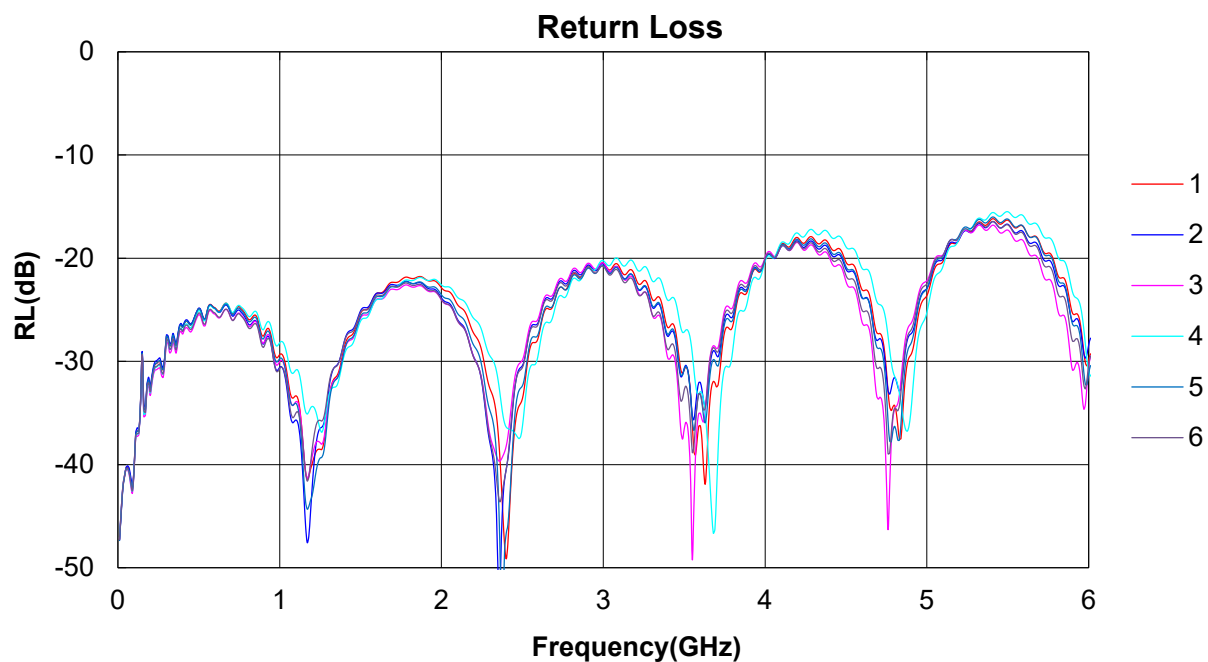
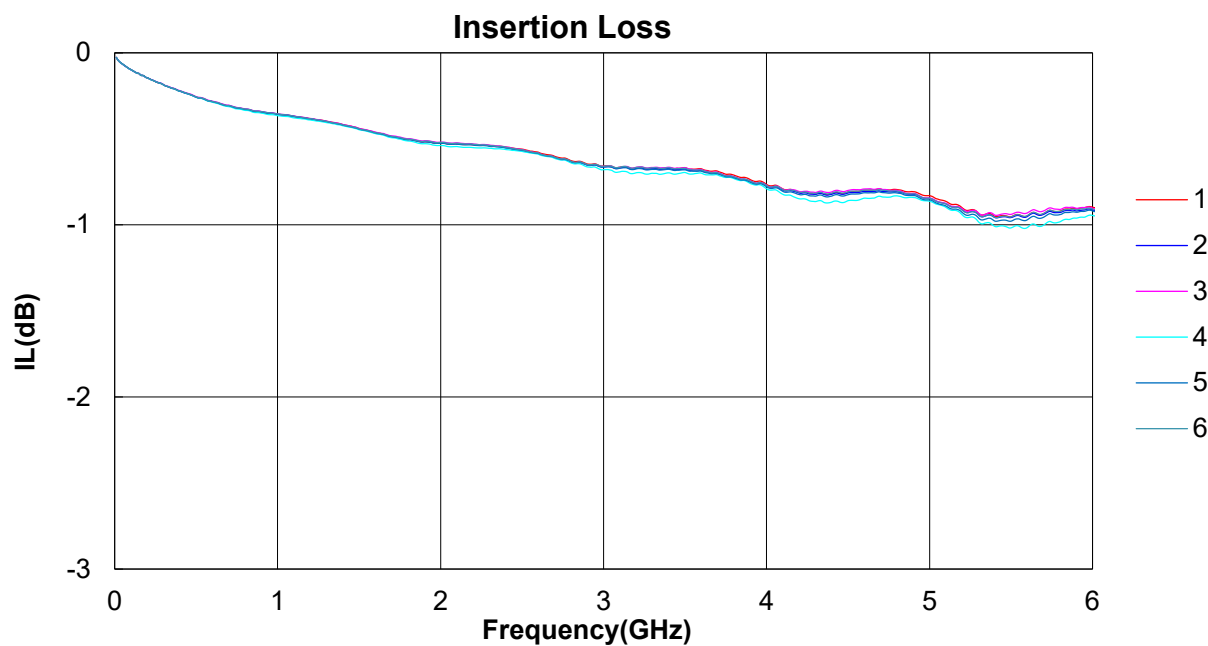
Results: MH081-MH4RP-01BJ1-0100

The results include MH081-MH4RP-01BJ1-0100 connector and MHF4 Male to SMA Male adapter effects.

Description: Micro High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
1	1.37 @ 5.41 GHz	-16.18 @ 5.41 GHz	-0.95 dB @ 5.49 GHz
2	1.35 @ 5.41 GHz	-16.47 @ 5.41 GHz	-0.96 dB @ 5.41 GHz
3	1.34 @ 5.33 GHz	-16.79 @ 5.33 GHz	-0.94 dB @ 5.41 GHz
4	1.40 @ 5.50 GHz	-15.50 @ 5.50 GHz	-1.02 dB @ 5.59 GHz
5	1.38 @ 5.41 GHz	-16.02 @ 5.41 GHz	-0.98 dB @ 5.41 GHz
6	1.35 @ 5.41 GHz	-16.45 @ 5.41 GHz	-0.96 dB @ 5.41 GHz

VSWR



Series: MH081**Description:** Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax CableReturn LossInsertion Loss

Series: MH081

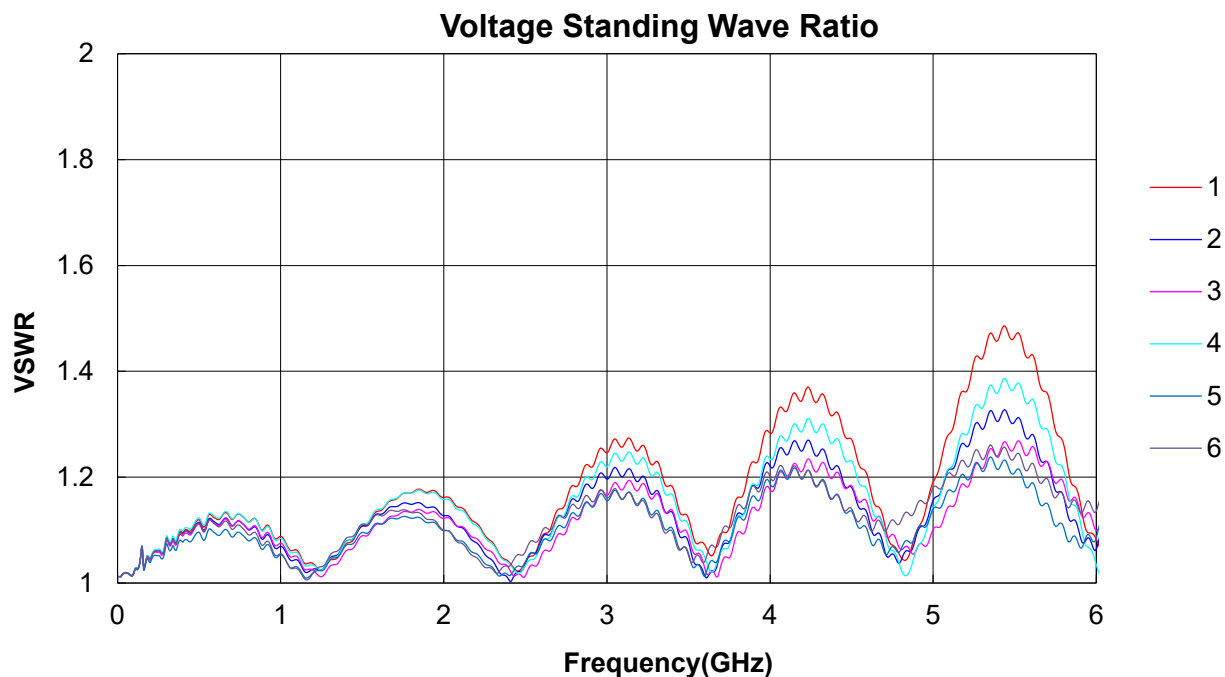
Description: Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

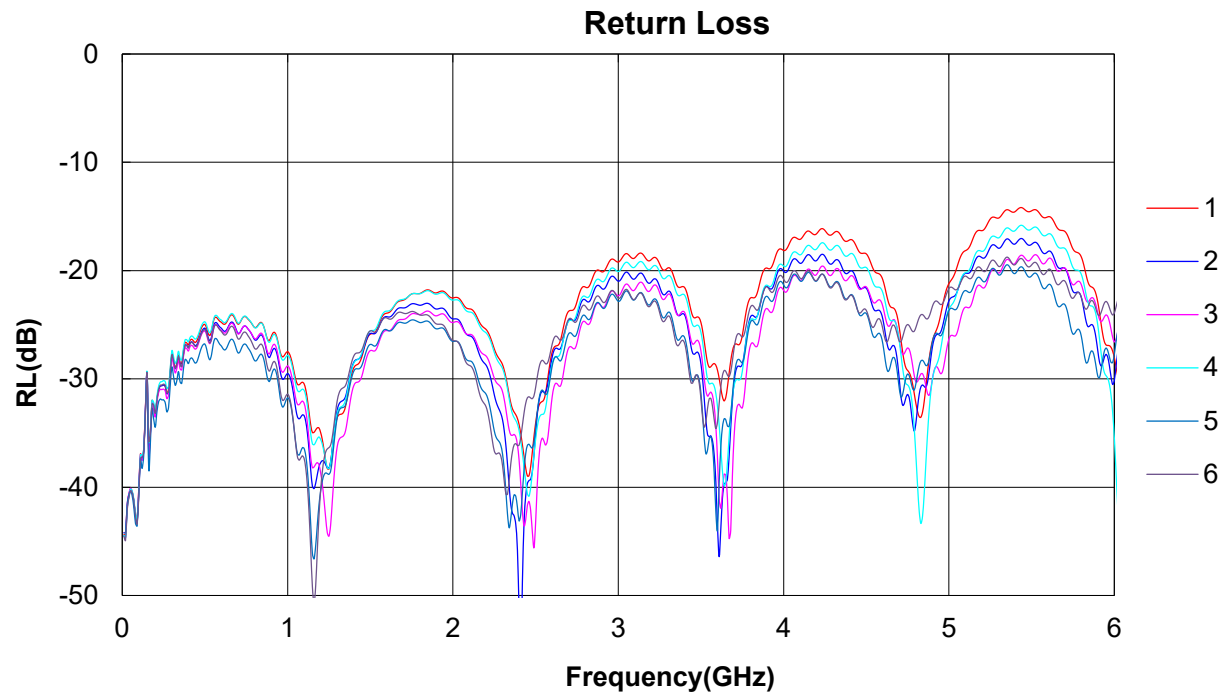
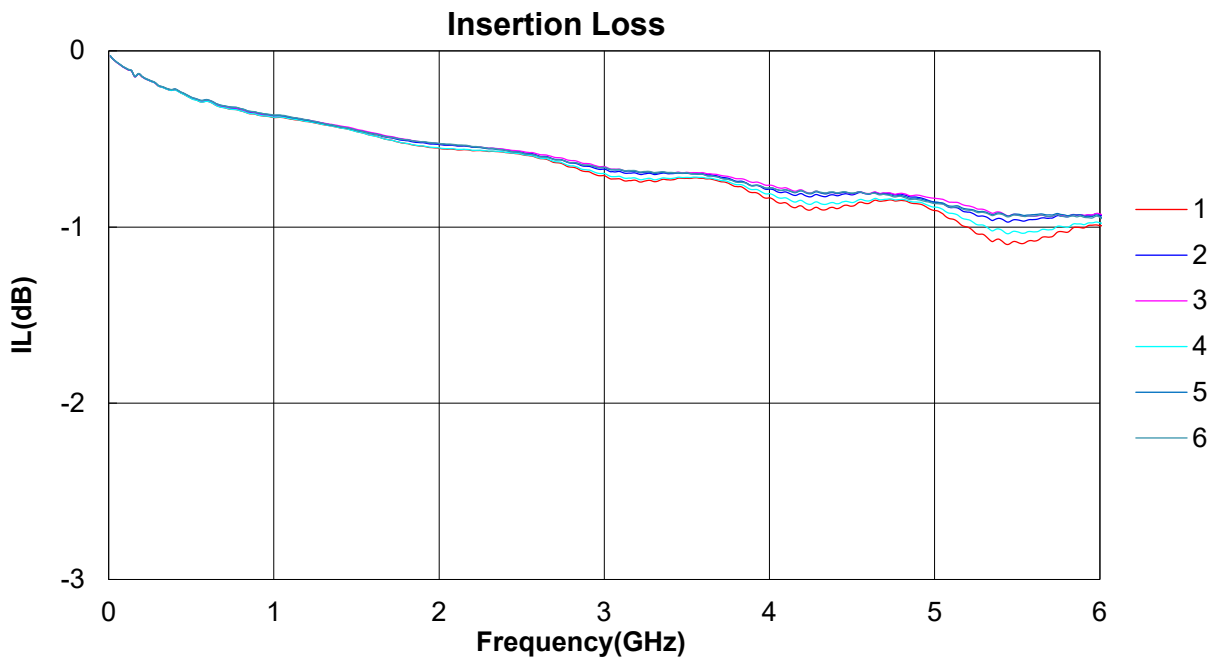
Results: MH081-MH4RP-01BJ2-0100

The results include MH081-MH4RP-01BJ2-0100 connector, MHF4 Male to SMA Male and SMA Female to RP SMA Male adapters effects.

Description: Micro High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
1	1.49 @ 5.44 GHz	-14.18 @ 5.44 GHz	-1.1 dB @ 5.44 GHz
2	1.33 @ 5.44 GHz	-17.03 @ 5.44 GHz	-0.97 dB @ 5.44 GHz
3	1.27 @ 5.53 GHz	-18.53 @ 5.53 GHz	-0.94 dB @ 5.69 GHz
4	1.39 @ 5.44 GHz	-15.81 @ 5.44 GHz	-1.04 dB @ 5.44 GHz
5	1.24 @ 5.35 GHz	-19.46 @ 5.35 GHz	-0.94 dB @ 5.95 GHz
6	1.26 @ 5.35 GHz	-18.76 @ 5.35 GHz	-0.95 dB @ 5.95 GHz

VSWR



Series: MH081**Description:** Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax CableReturn LossInsertion Loss

Series: MH081

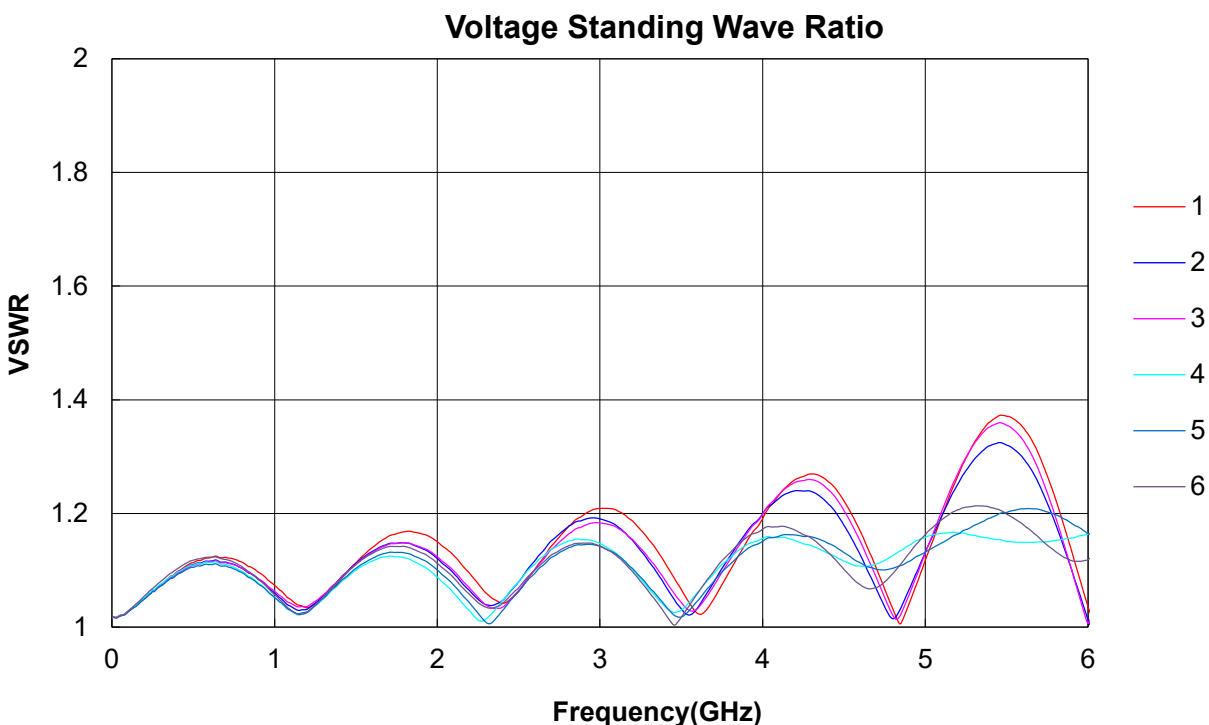
Description: Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable

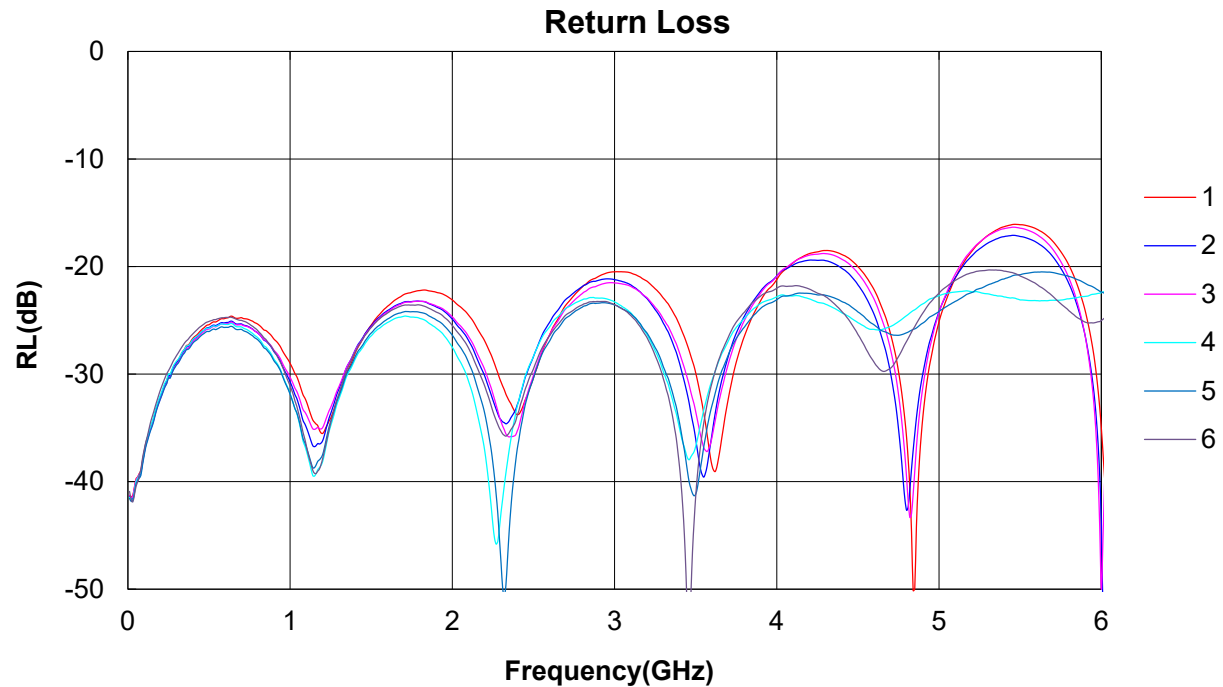
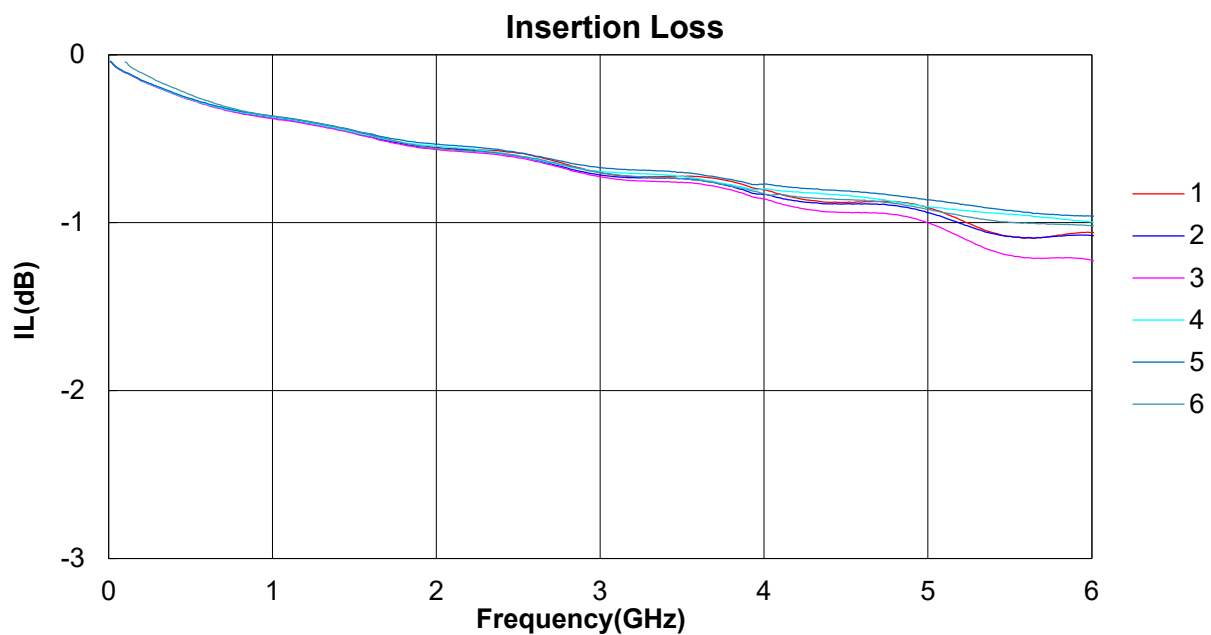
Results: MH081-MH4RP-01SB1-0100

The results include MH081-MH4RP-01SB1-0100 connector and MHF4 Male to SMA Male adapter effects.

Description: Micro High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
1	1.37 @ 5.47 GHz	-16.07 @ 5.47 GHz	-1.09 dB @ 5.64 GHz
2	1.32 @ 5.46 GHz	-17.10 @ 5.46 GHz	-1.09 dB @ 5.65 GHz
3	1.36 @ 5.46 GHz	-16.34 @ 5.46 GHz	-1.22 dB @ 6.0 GHz
4	1.17 @ 5.17 GHz	-22.26 @ 5.17 GHz	-1.0 dB @ 6.0 GHz
5	1.21 @ 5.63 GHz	-20.49 @ 5.63 GHz	-0.96 dB @ 5.96 GHz
6	1.21 @ 5.31 GHz	-20.31 @ 5.31 GHz	-1.02 dB @ 6.0 GHz

VSWR



Series: MH081**Description:** Micro High Frequency RF Cable Assembly, 0.81 mm DIA Coax Cable**Return Loss****Insertion Loss**

Series: MH081

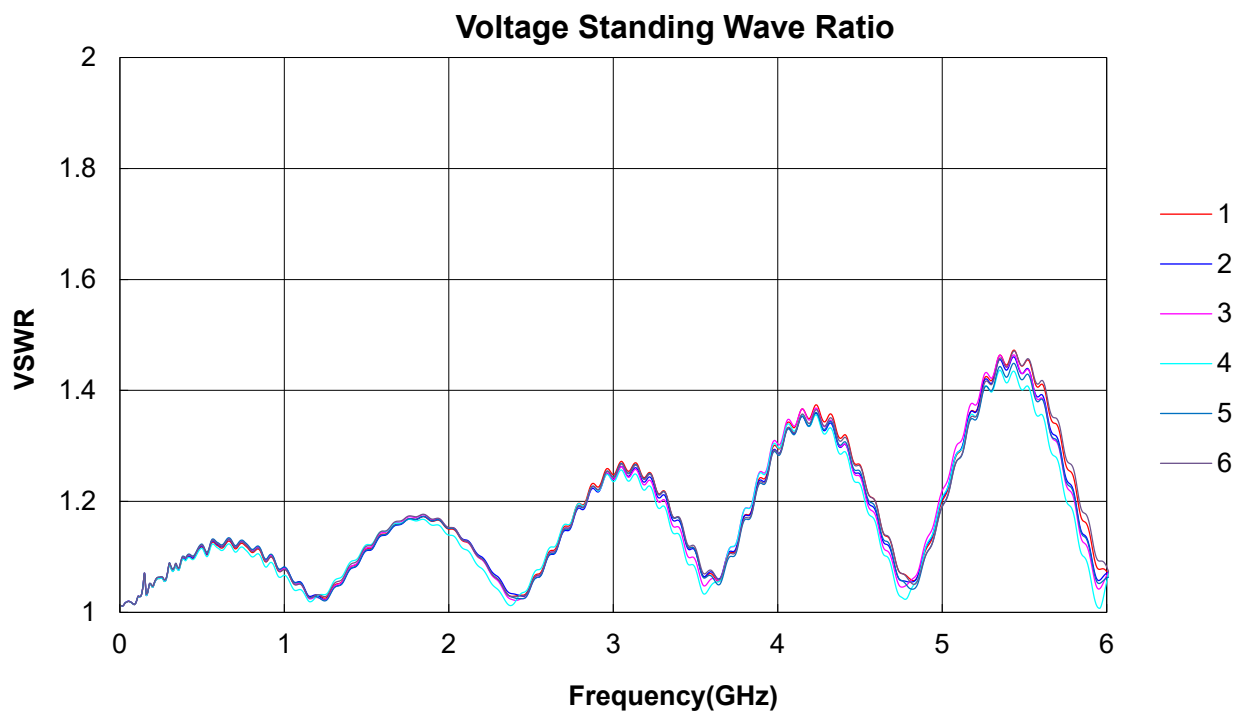
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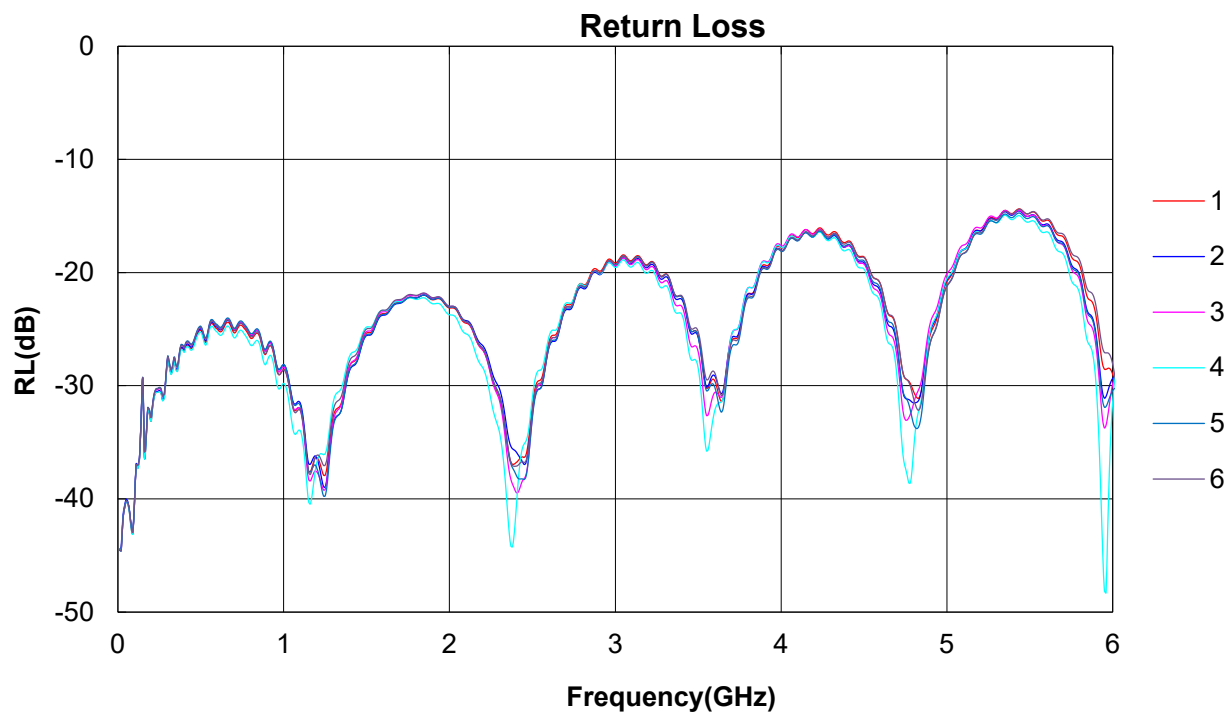
Results: MH081-MH4RP-01SR1-0100

The results include MH081-MH4RP-01SR1-0100 connector, MHF4 Male to SMA Male and SMA Female to RP SMA Male adapters effects.

Description: Micro High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
1	1.47 @ 5.44 GHz	-14.37 @ 5.44 GHz	-1.08 dB @ 5.44 GHz
2	1.46 @ 5.44 GHz	-14.56 @ 5.44 GHz	-1.14 dB @ 5.44 GHz
3	1.46 @ 5.44 GHz	-14.50 @ 5.44 GHz	-1.08 dB @ 5.44 GHz
4	1.44 @ 5.35 GHz	-14.93 @ 5.35 GHz	-1.06 dB @ 5.44 GHz
5	1.45 @ 5.44 GHz	-14.74 @ 5.44 GHz	-1.07 dB @ 5.44 GHz
6	1.47 @ 5.44 GHz	-14.40 @ 5.44 GHz	-1.12 dB @ 5.44 GHz

VSWR



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