



RF Characterization Report

RF047-A-01SP-01SP-XXXX



RF047-A-01SB-01SB-XXXX



RF047-A-01BJ-01BJ-XXXX



Test Date: Sep 2022

Description:
50 Ohm, .047" RF Millimeter Wave Cable Assembly
SMA End Options

Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

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Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF047-A high frequency RF cable assembly with SMA connector end options.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	26.5 GHz
Points	2650
Test Cables	Gore 0F0CACB036.0-LF

Calibration Type:

A mechanical calibration is performed using the Maury 2.92mm 8770CK11 Mechanical Calibration kit.

Calibration Kit	Maury 2.92mm 8770CK11 Mechanical Calibration Kit
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Adapter Use:

BO-JIANG 1.85mm(F) to 2.92mm(F) adapter were used for RF047-A-01SP-01SP-XXXX, 1.85mm(F) to 2.92mm(M) adapter were used for RF047-A-01SB-01SB-XXXX and RF047-A-01BJ-01BJ-XXXX testing, but the adapters effect was removed from the measurement by MCAL.

Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options**RF047-A-01XX-01XX-XXXX Test Definition**

Part Number	End 1	End 2
RF047-A-01SP-01SP-XXXX	SMA Straight Plug	SMA Straight Plug
RF047-A-01SB-01SB-XXXX	SMA Sealed Bulkhead Jack	SMA Sealed Bulkhead Jack
RF047-A-01BJ-01BJ-XXXX	SMA Bulkhead Jack	SMA Bulkhead Jack

Cable Under Test:

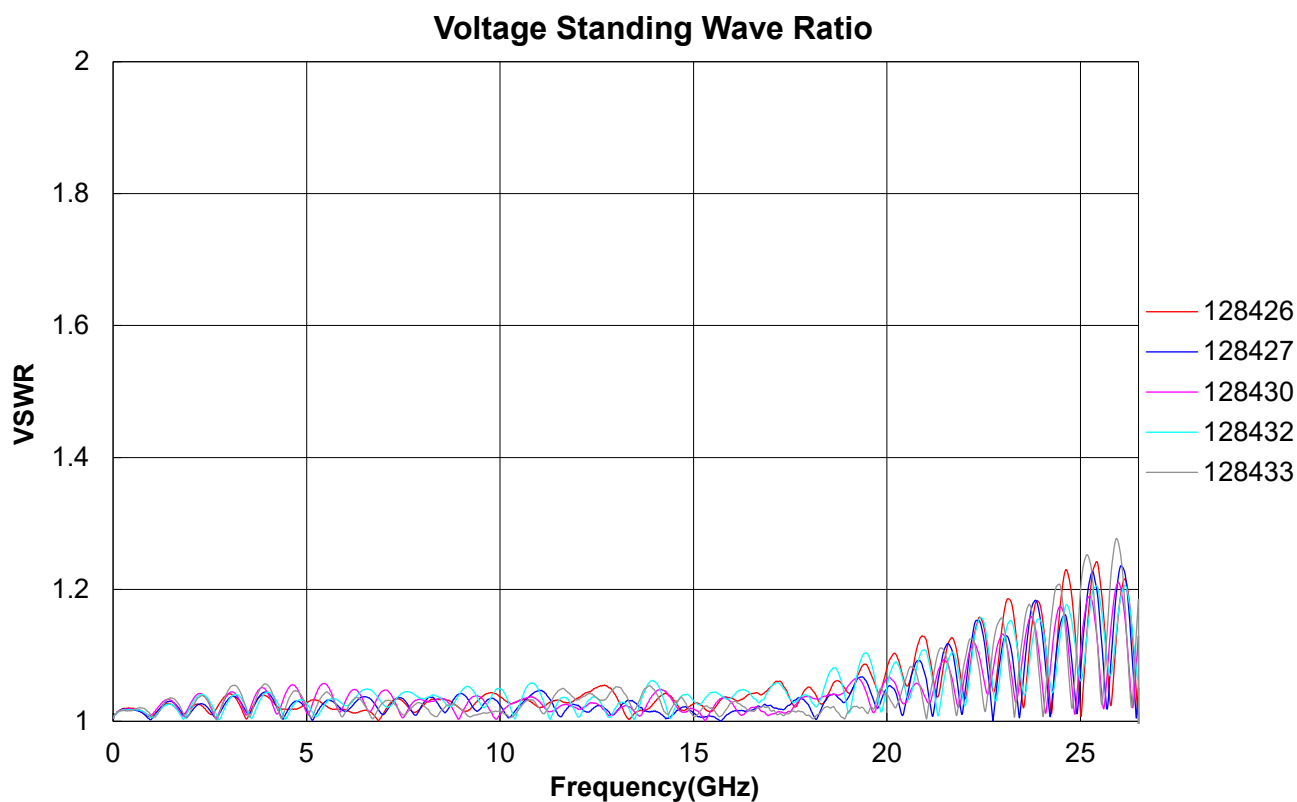
Series: RF047-A

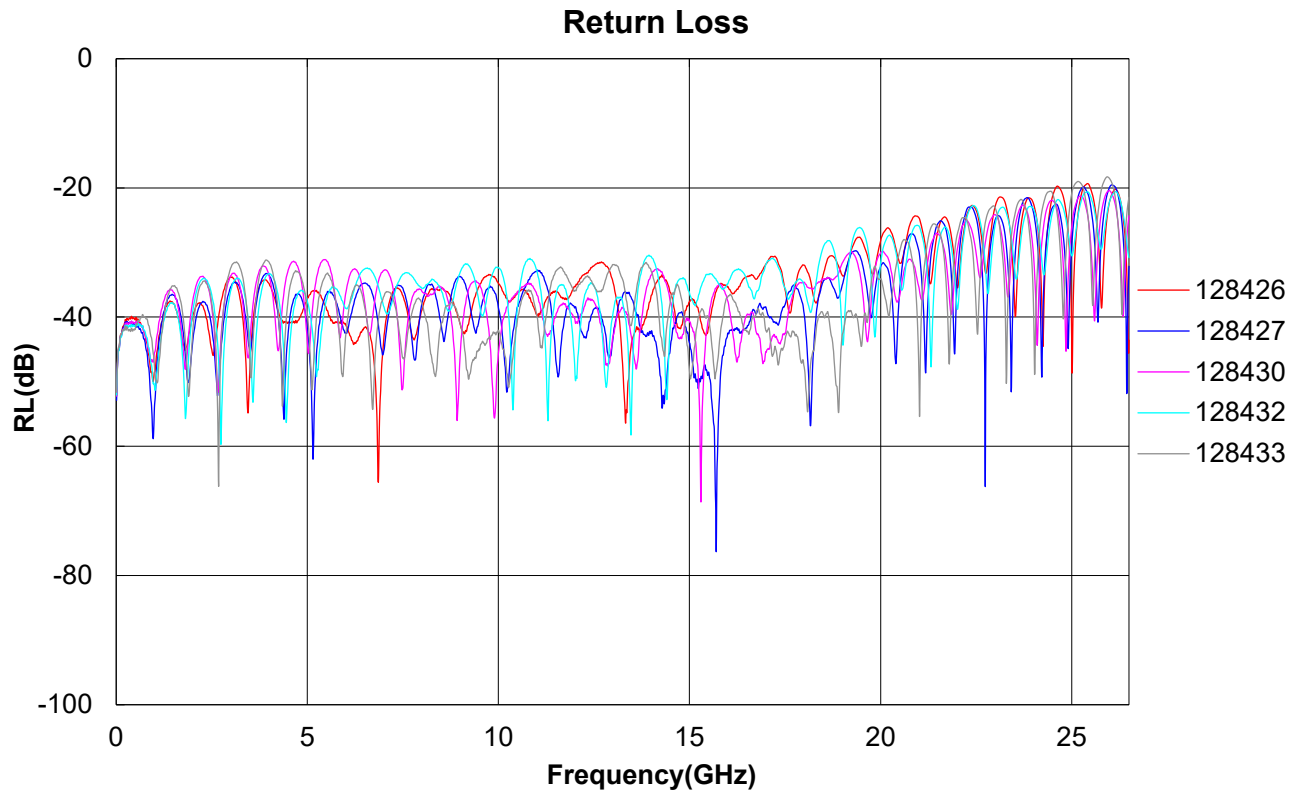
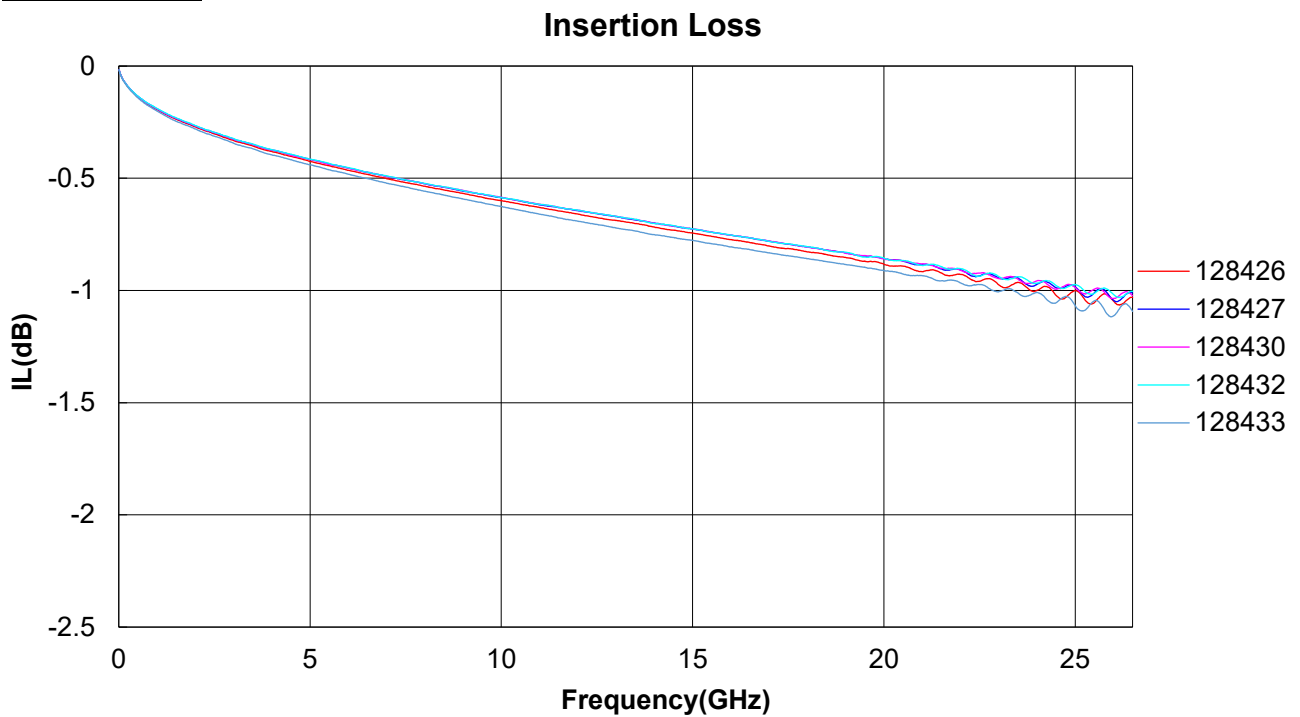
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01SP-01SP-0152

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
128426	1.24 @ 25.41 GHz	-19.34 @ 25.41 GHz	-1.06 @ 26.14 GHz
128427	1.24 @ 26.05 GHz	-19.53 @ 26.05 GHz	-1.05 @ 26.08 GHz
128430	1.21 @ 25.98 GHz	-20.42 @ 25.98 GHz	-1.04 @ 25.95 GHz
128432	1.21 @ 26.15 GHz	-20.58 @ 26.15 GHz	-1.03 @ 26.15 GHz
128433	1.28 @ 25.93 GHz	-18.29 @ 25.93 GHz	-1.12 @ 25.95 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options**Return Loss****Insertion Loss**

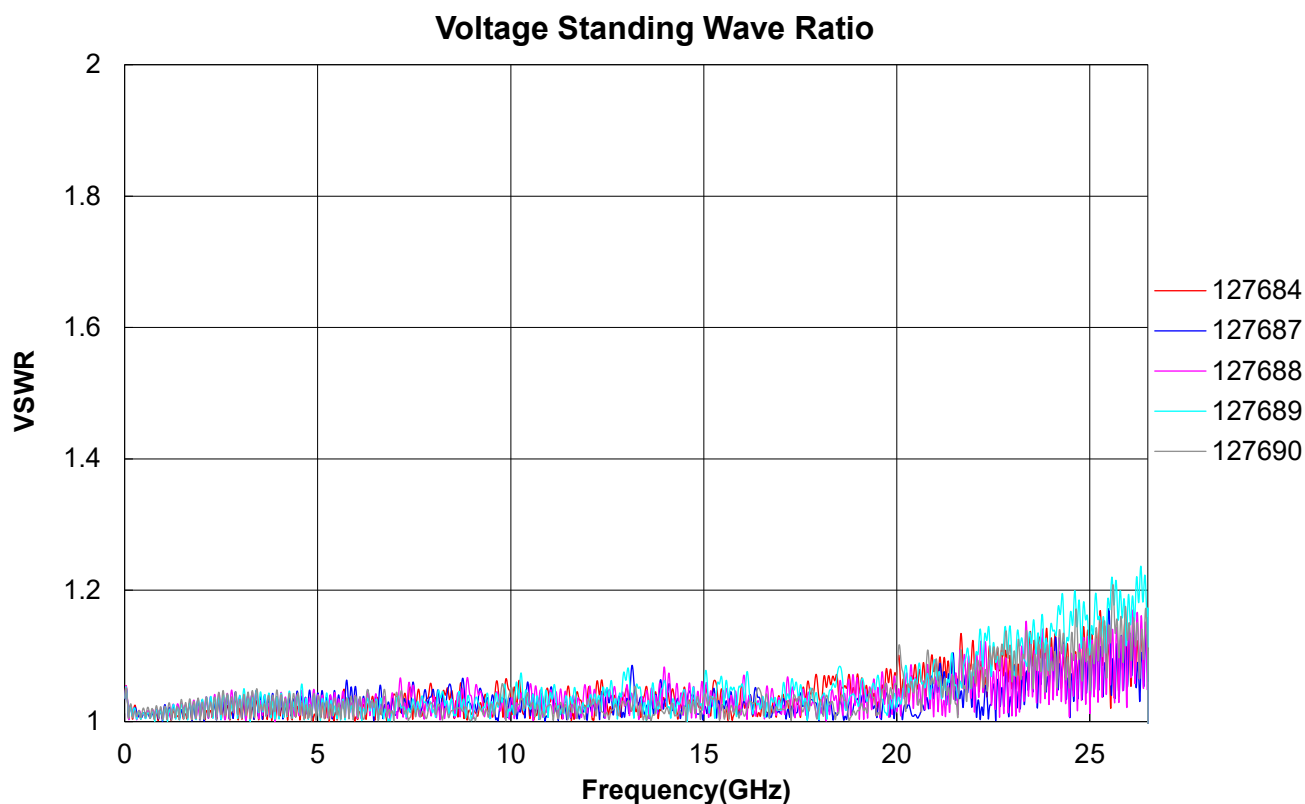
Series: RF047-A

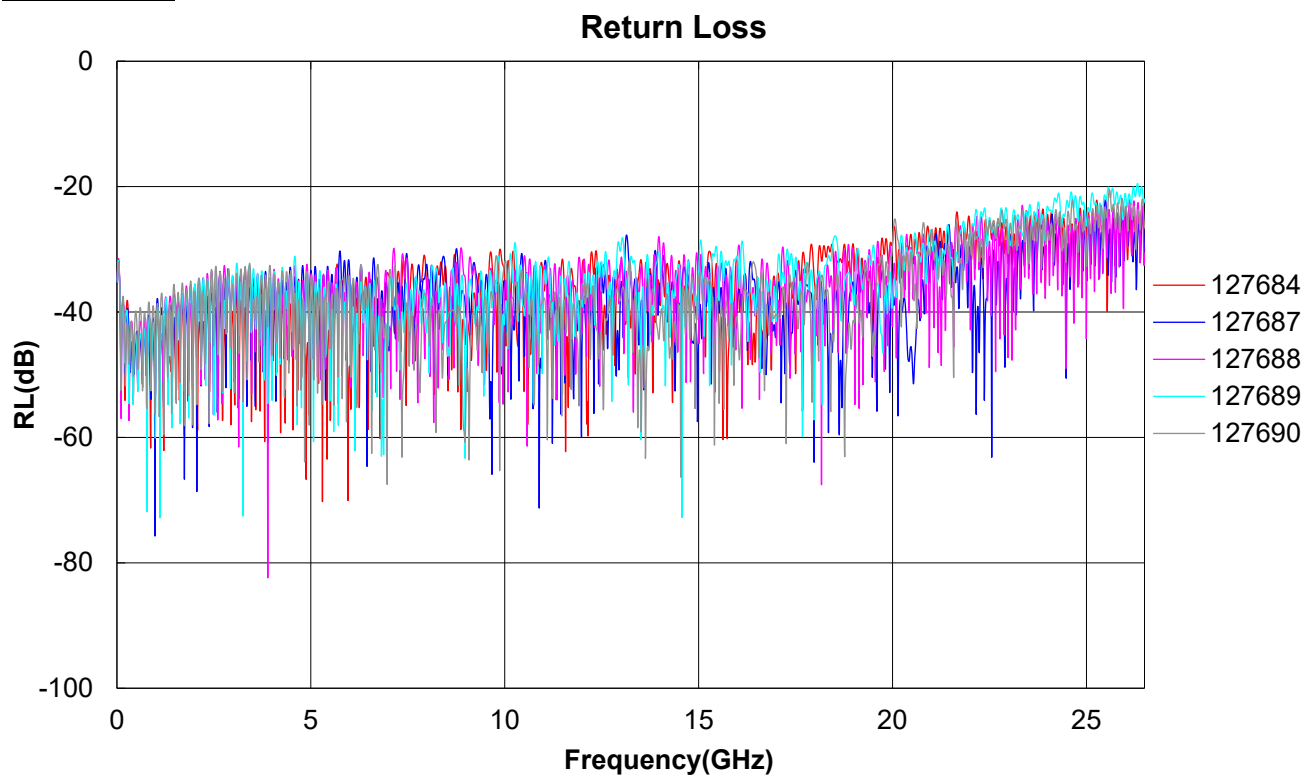
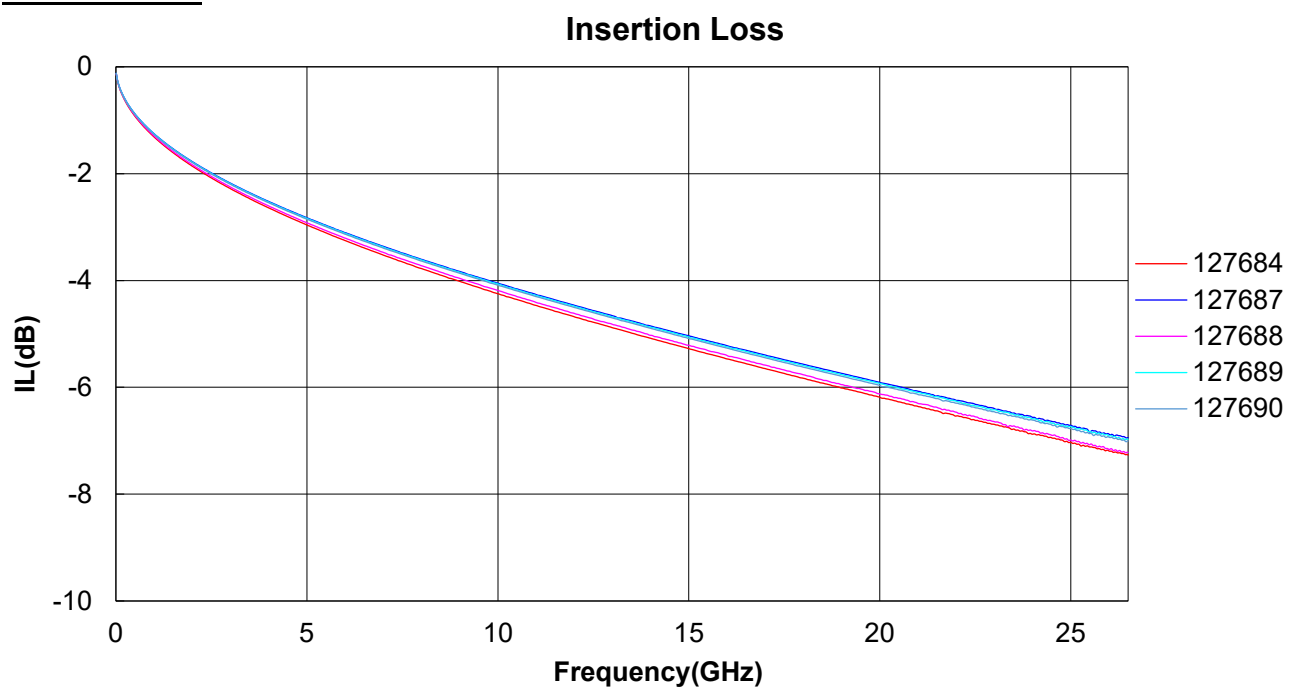
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01SP-01SP-1000

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
127684	1.17 @ 25.27 GHz	-22.16 @ 25.27 GHz	-7.27 @ 26.50 GHz
127687	1.17 @ 25.49 GHz	-22.03 @ 25.49 GHz	-6.94 @ 26.46 GHz
127688	1.17 @ 26.12 GHz	-22.11 @ 26.12 GHz	-7.22 @ 26.44 GHz
127689	1.24 @ 26.32 GHz	-19.51 @ 26.32 GHz	-6.98 @ 26.43 GHz
127690	1.21 @ 25.60 GHz	-20.50 @ 25.60 GHz	-7.01 @ 26.45 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End OptionsReturn LossInsertion Loss

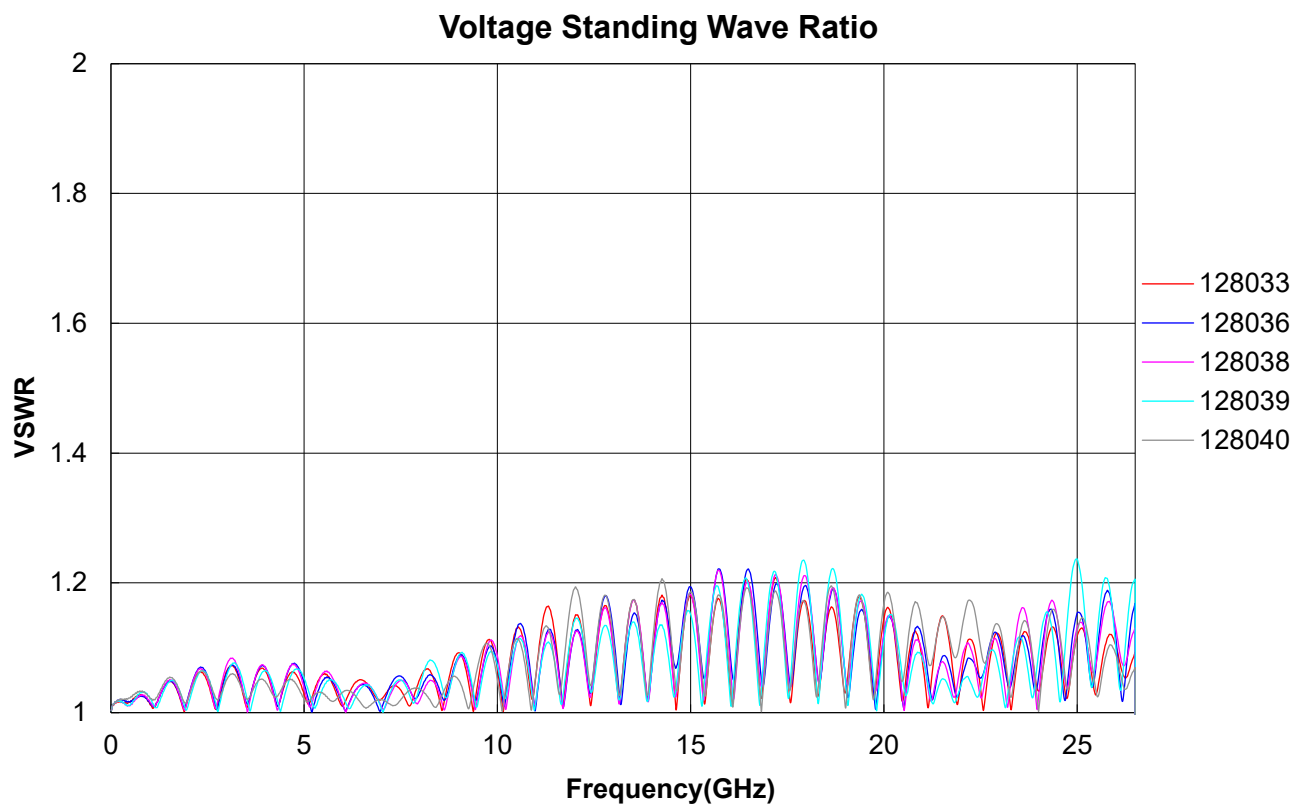
Series: RF047-A

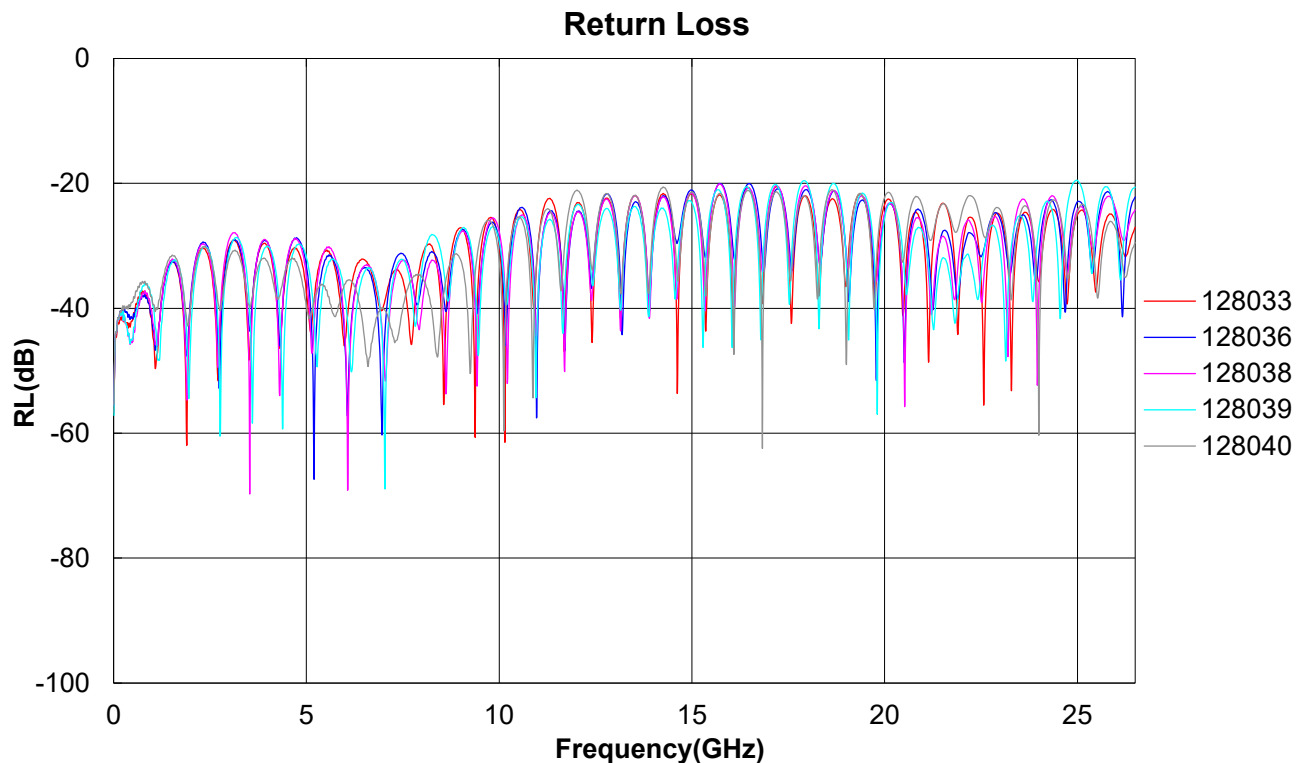
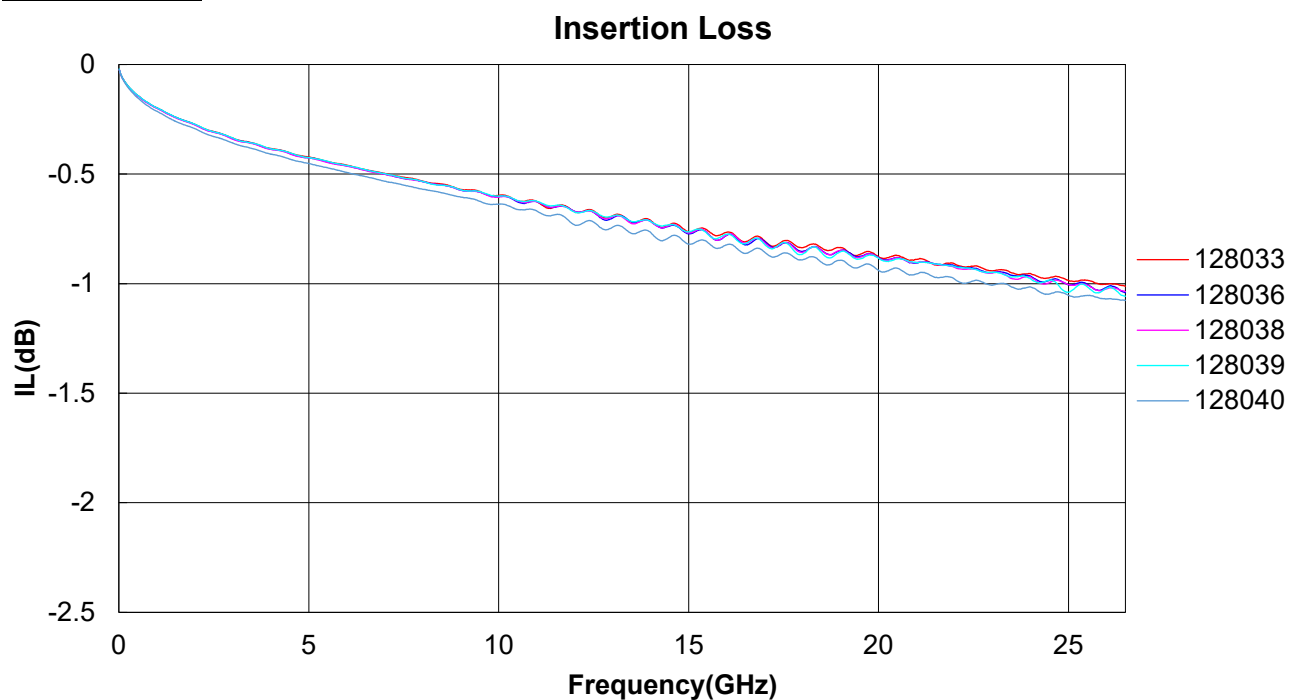
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01SB-01SB-0152

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
128033	1.21 @ 17.20 GHz	-20.51 @ 17.20 GHz	-1.01 @ 26.50 GHz
128036	1.22 @ 15.72 GHz	-20.02 @ 15.72 GHz	-1.04 @ 26.50 GHz
128038	1.22 @ 15.71 GHz	-20.10 @ 15.71 GHz	-1.03 @ 26.50 GHz
128039	1.24 @ 24.99 GHz	-19.50 @ 24.99 GHz	-1.06 @ 26.50 GHz
128040	1.21 @ 14.26 GHz	-20.58 @ 14.26 GHz	-1.07 @ 26.50 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options**Return Loss****Insertion Loss**

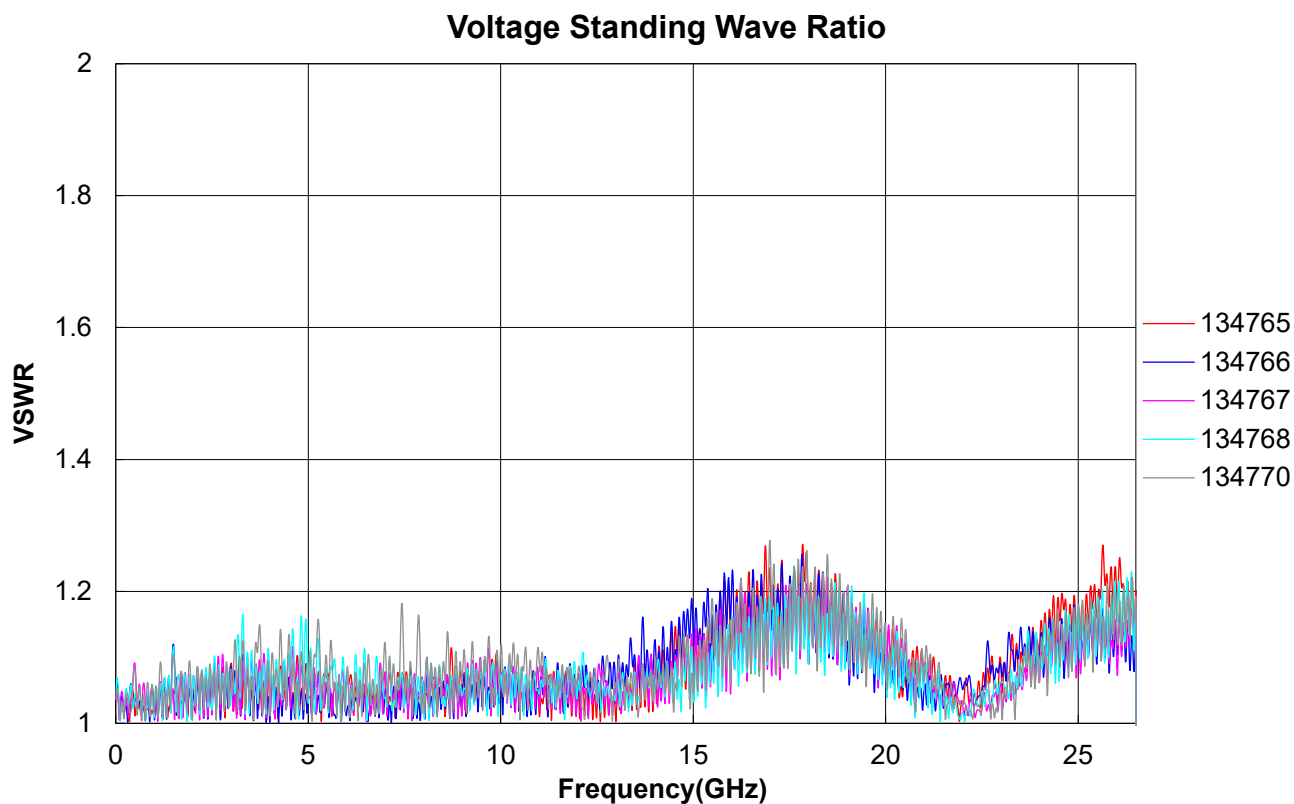
Series: RF047-A

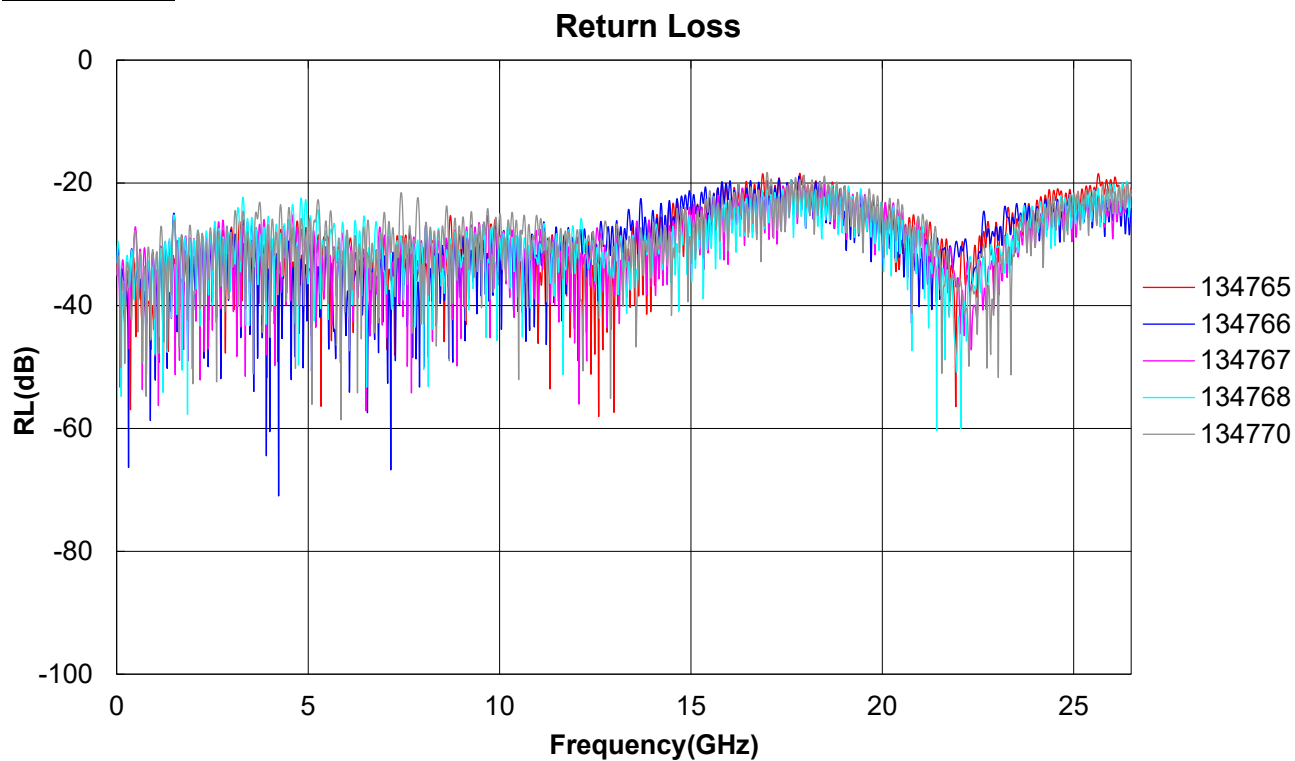
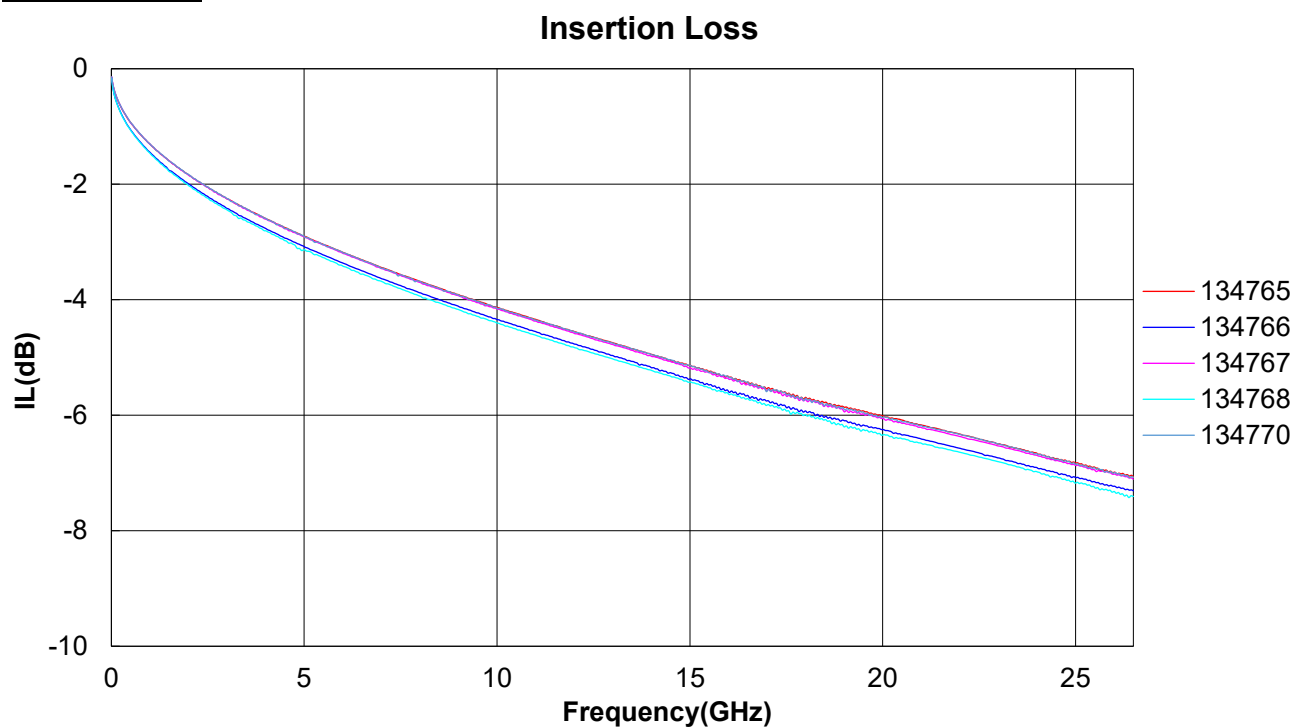
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01SB-01SB-1000

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
134765	1.27 @ 17.84 GHz	-18.45 @ 17.84 GHz	-7.06 @ 26.50 GHz
134766	1.26 @ 17.83 GHz	-18.90 @ 17.83 GHz	-7.30 @ 26.50 GHz
134767	1.23 @ 17.84 GHz	-19.67 @ 17.84 GHz	-7.10 @ 26.50 GHz
134768	1.24 @ 17.62 GHz	-19.46 @ 17.62 GHz	-7.41 @ 26.39 GHz
134770	1.28 @ 16.99 GHz	-18.29 @ 16.99 GHz	-7.08 @ 26.41 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End OptionsReturn LossInsertion Loss

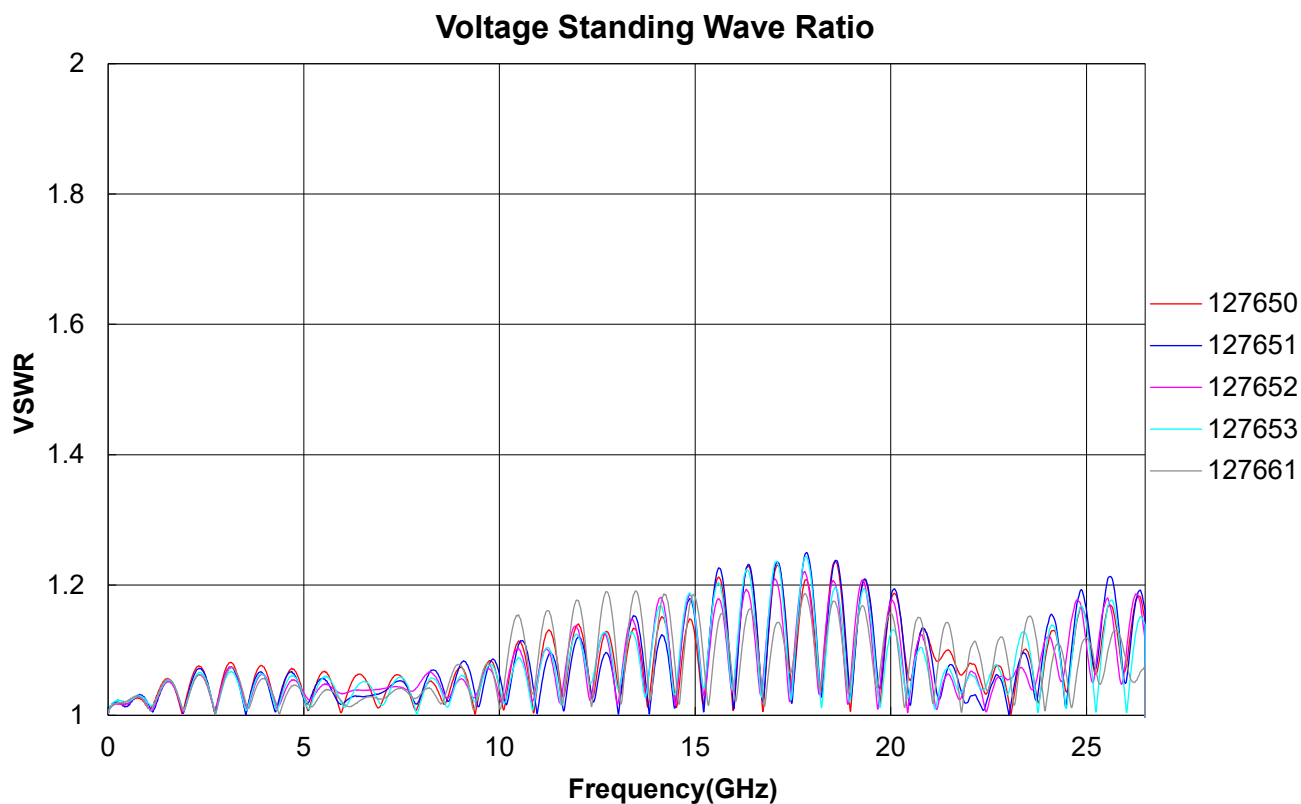
Series: RF047-A

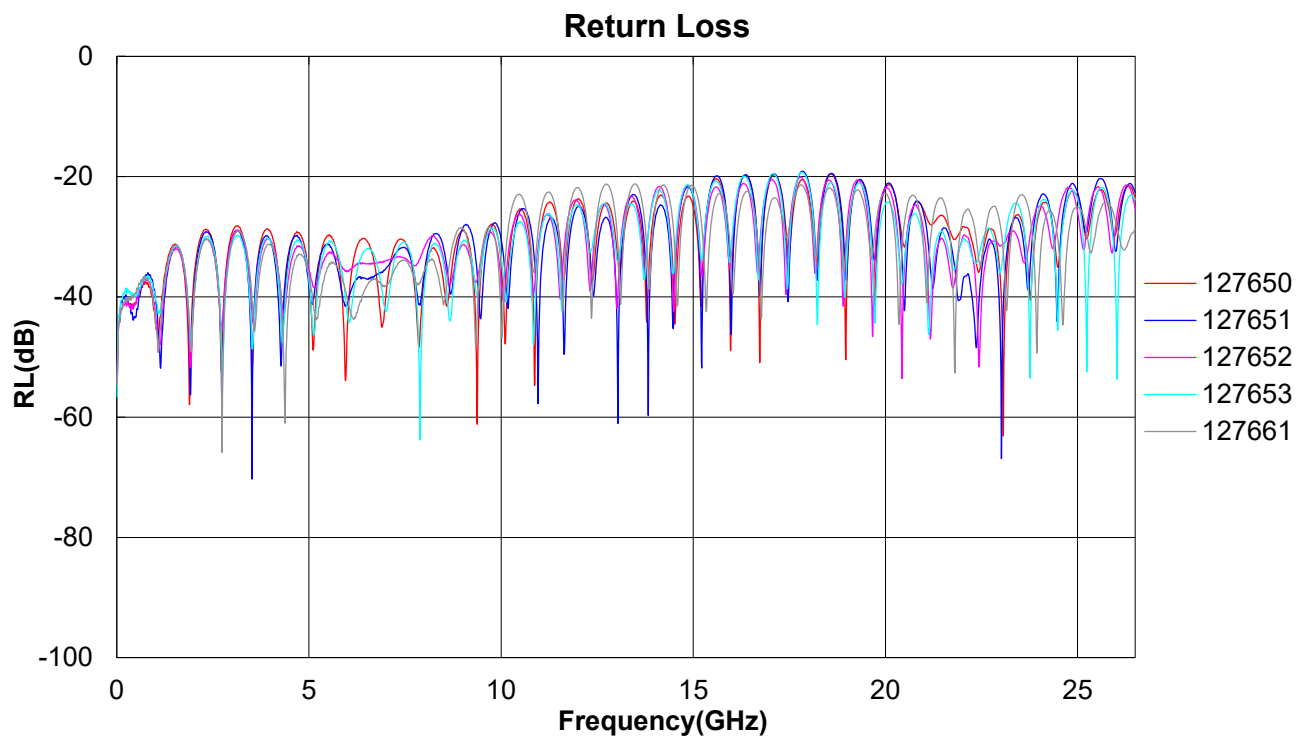
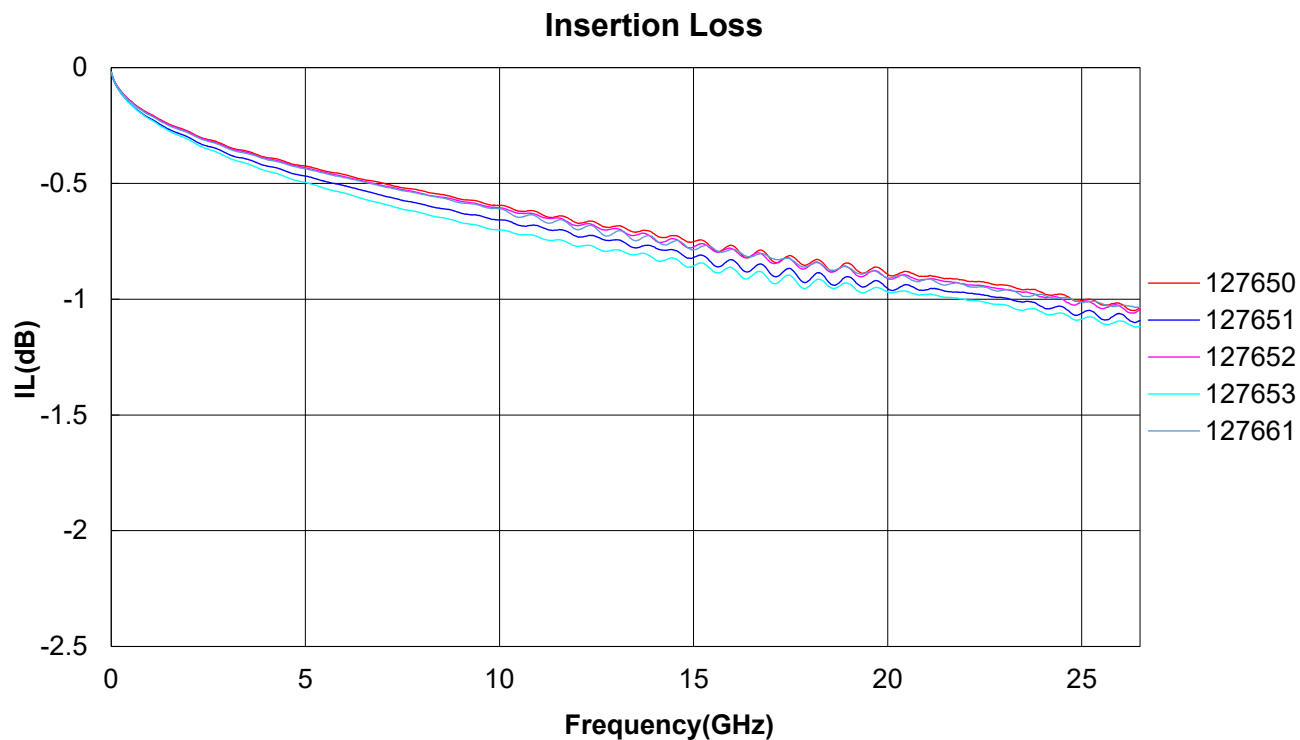
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01BJ-01BJ-0152

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
127650	1.24 @ 18.58 GHz	-19.51 @ 18.58 GHz	-1.05 @ 26.33 GHz
127651	1.25 @ 17.85 GHz	-19.09 @ 17.85 GHz	-1.10 @ 26.39 GHz
127652	1.22 @ 17.79 GHz	-20.05 @ 17.79 GHz	-1.06 @ 26.33 GHz
127653	1.24 @ 17.83 GHz	-19.29 @ 17.83 GHz	-1.12 @ 26.39 GHz
127661	1.19 @ 13.48 GHz	-21.20 @ 13.48 GHz	-1.03 @ 26.48 GHz

VSWR



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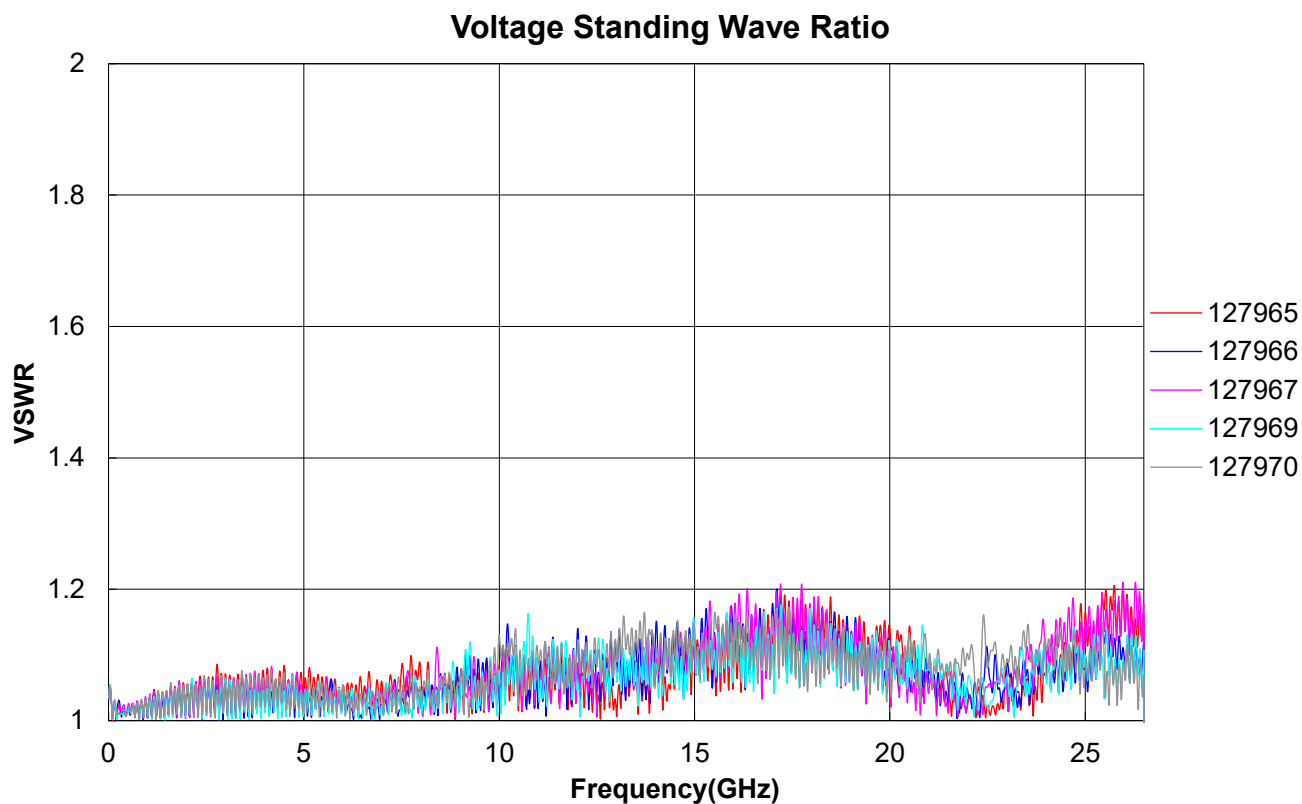
Series: RF047-A

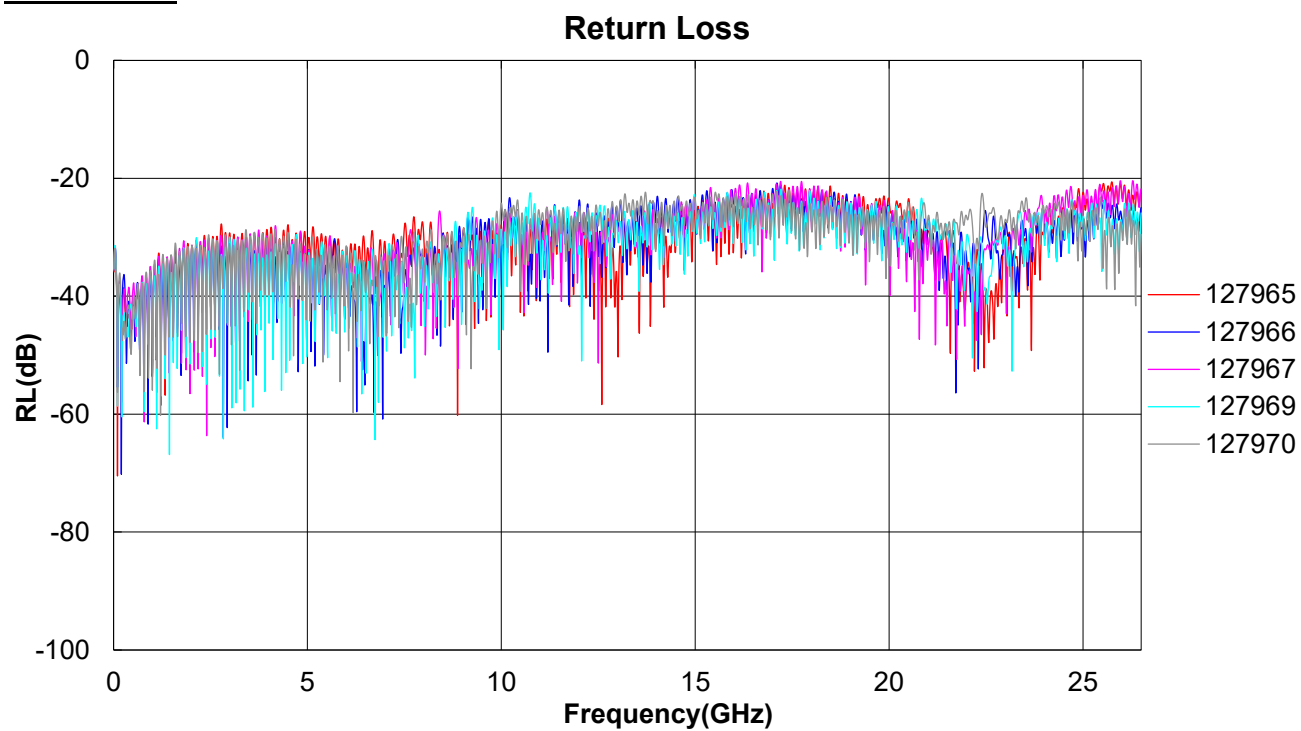
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, SMA End Options

Results: RF047-A-01BJ-01BJ-1000

Description: RF047 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
127965	1.21 @ 25.74 GHz	-20.60 @ 25.74 GHz	-7.17 @ 26.50 GHz
127966	1.20 @ 17.11 GHz	-20.80 @ 17.11 GHz	-7.18 @ 26.50 GHz
127967	1.21 @ 25.96 GHz	-20.41 @ 25.96 GHz	-7.22 @ 26.50 GHz
127969	1.18 @ 17.21 GHz	-21.84 @ 17.21 GHz	-7.16 @ 26.50 GHz
127970	1.17 @ 17.42 GHz	-21.99 @ 17.42 GHz	-7.14 @ 26.50 GHz

VSWR



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