

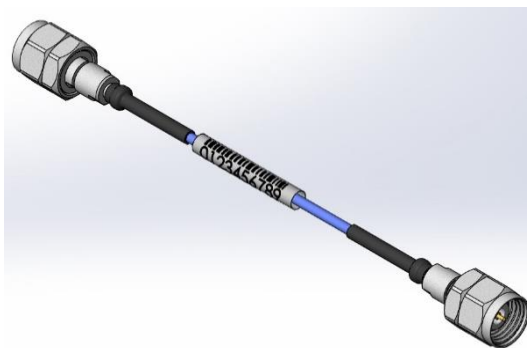


RF Characterization Report

RF047-A-24SJ-24SJ-XXXX



RF047-A-24SP-24SP-XXXX



Test Date: 05 May, 2021

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

Series: RF047-A

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

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:	1
Calibration Type:	1
Adapter Use:	1
RF047-A-24SX-24SX-XXXX Test Definition	2
Cable Under Test:	2
Results: RF047-A-24SJ-24SJ-0152	3
VSWR	3
Return Loss	4
Insertion Loss	4
Results: RF047-A-24SJ-24SJ-1000	5
VSWR	5
Return Loss	6
Insertion Loss	6
Results: RF047-A-24SP-24SP-0152	7
VSWR	7
Return Loss	8
Insertion Loss	8
Results: RF047-A-24SP-24SP-1000	9
VSWR	9
Return Loss	10
Insertion Loss	10

Series: RF047-A

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

Test Setup Information

Scope:

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

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	50 GHz
Points	5000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed for N5227B using the Keysight ECAL N4694A kit.

Calibration Kit	Keysight ECAL N4694A
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Adapter Use:

Pasternack 1.85 mm to 2.4 mm adapter were used, but the adapters effect was removed from the measurement using PNA's Fixture Removal method.

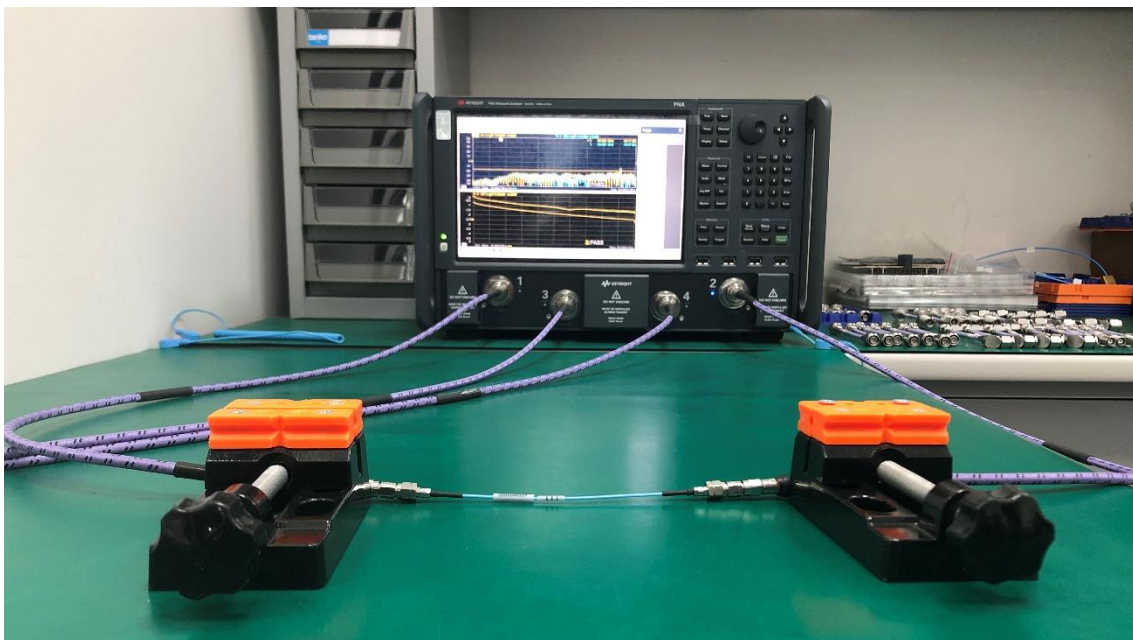
Series: RF047-A

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

RF047-A-24SX-24SX-XXXX Test Definition

Part Number	End 1	End 2
RF047-A-24SJ-24SJ-0152	2.4mm Jack	2.4mm Jack
RF047-A-24SJ-24SJ-1000	2.4mm Jack	2.4mm Jack
RF047-A-24SP-24SP-0152	2.4mm Plug	2.4mm Plug
RF047-A-24SP-24SP-1000	2.4mm Plug	2.4mm Plug

Cable Under Test:



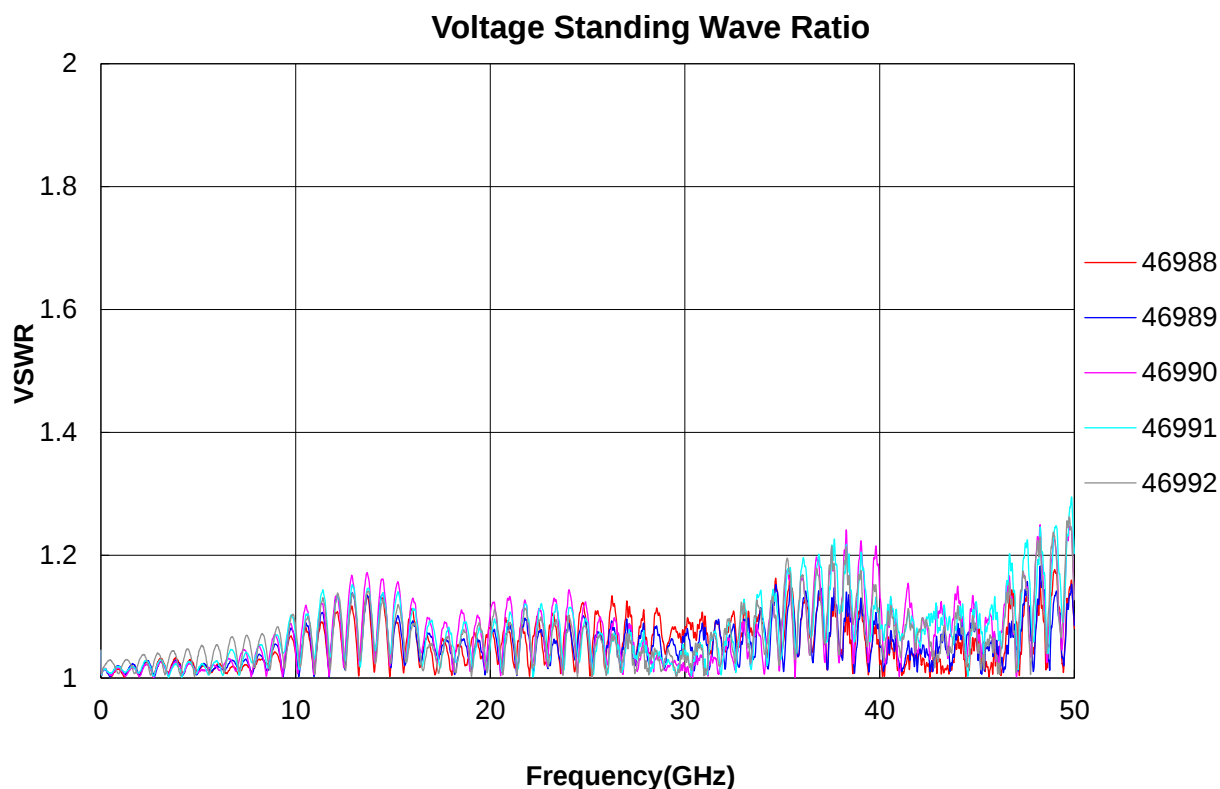
Series: RF047-A

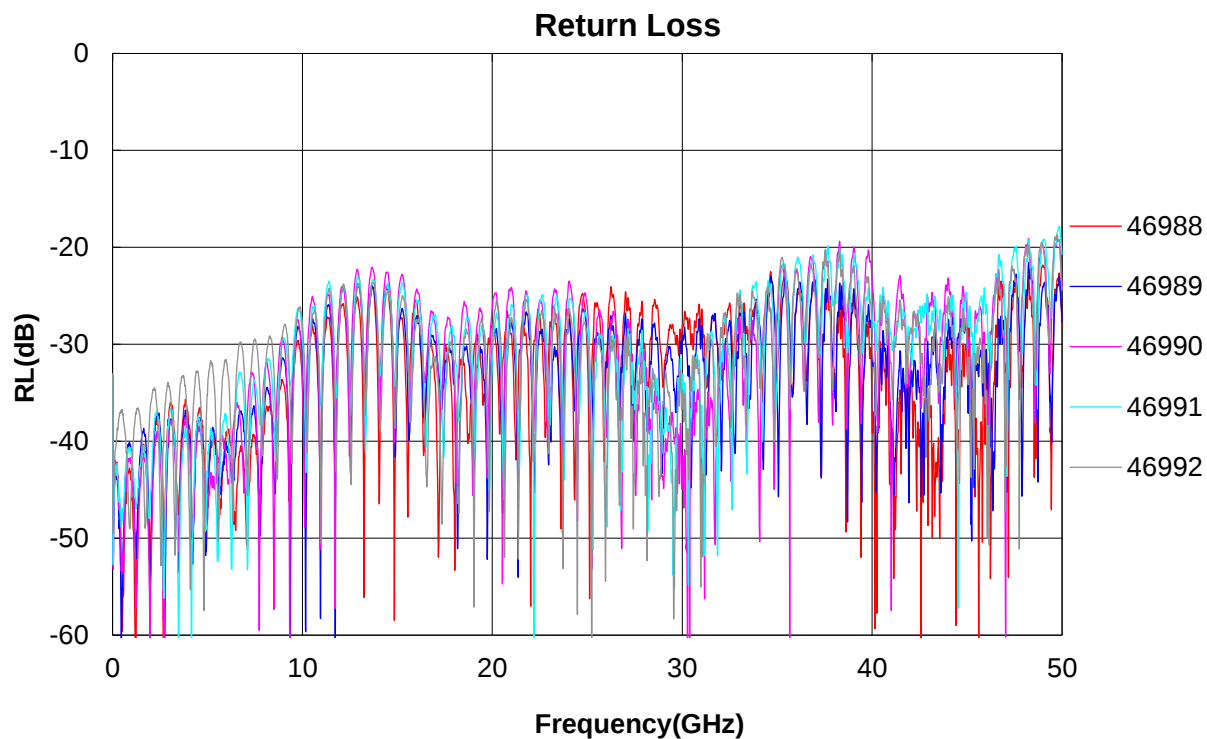
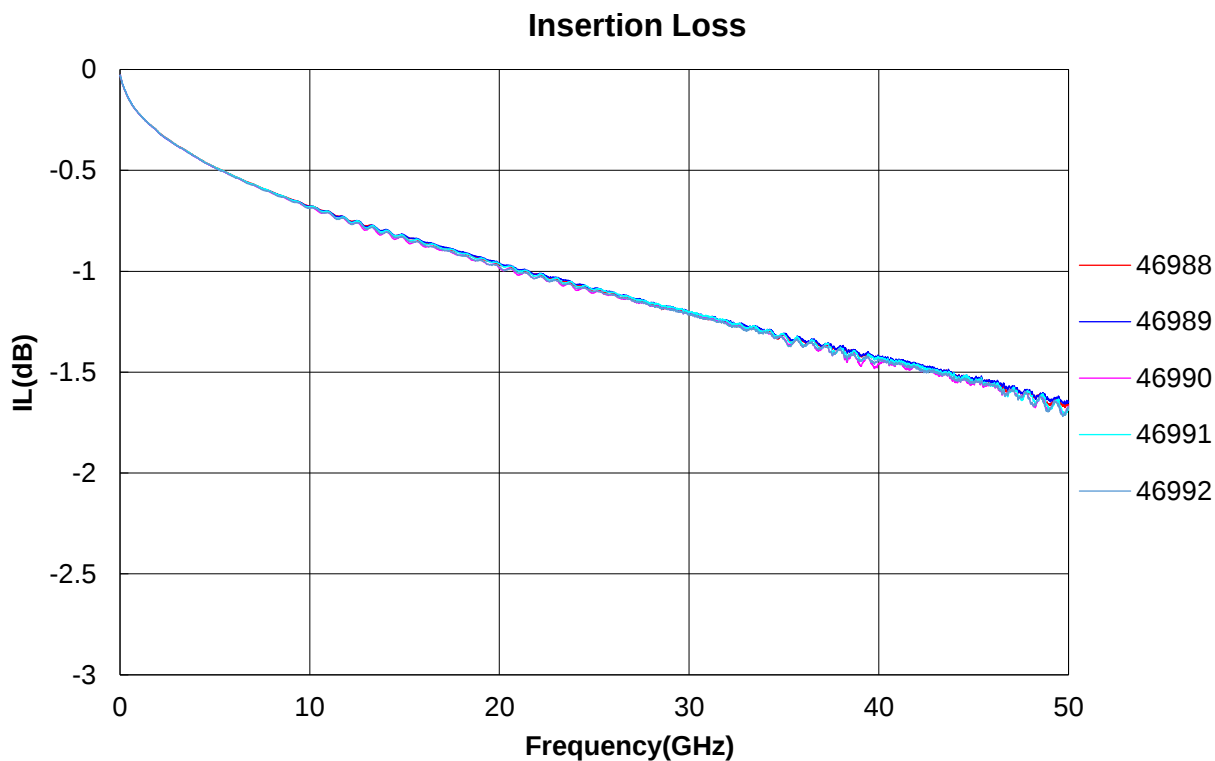
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly

Results: RF047-A-24SJ-24SJ-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
46988	1.18 @ 48.99 GHz	-21.81 @ 48.99 GHz	-1.68 dB @ 49.81 GHz
46989	1.18 @ 48.25 GHz	-21.55 @ 48.25 GHz	-1.66 dB @ 49.80 GHz
46990	1.25 @ 48.25 GHz	-19.10 @ 48.25 GHz	-1.71 dB @ 49.81 GHz
46991	1.29 @ 49.86 GHz	-17.83 @ 49.86 GHz	-1.71 dB @ 49.81 GHz
46992	1.26 @ 49.73 GHz	-18.71 @ 49.73 GHz	-1.72 dB @ 49.70 GHz

VSWR



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

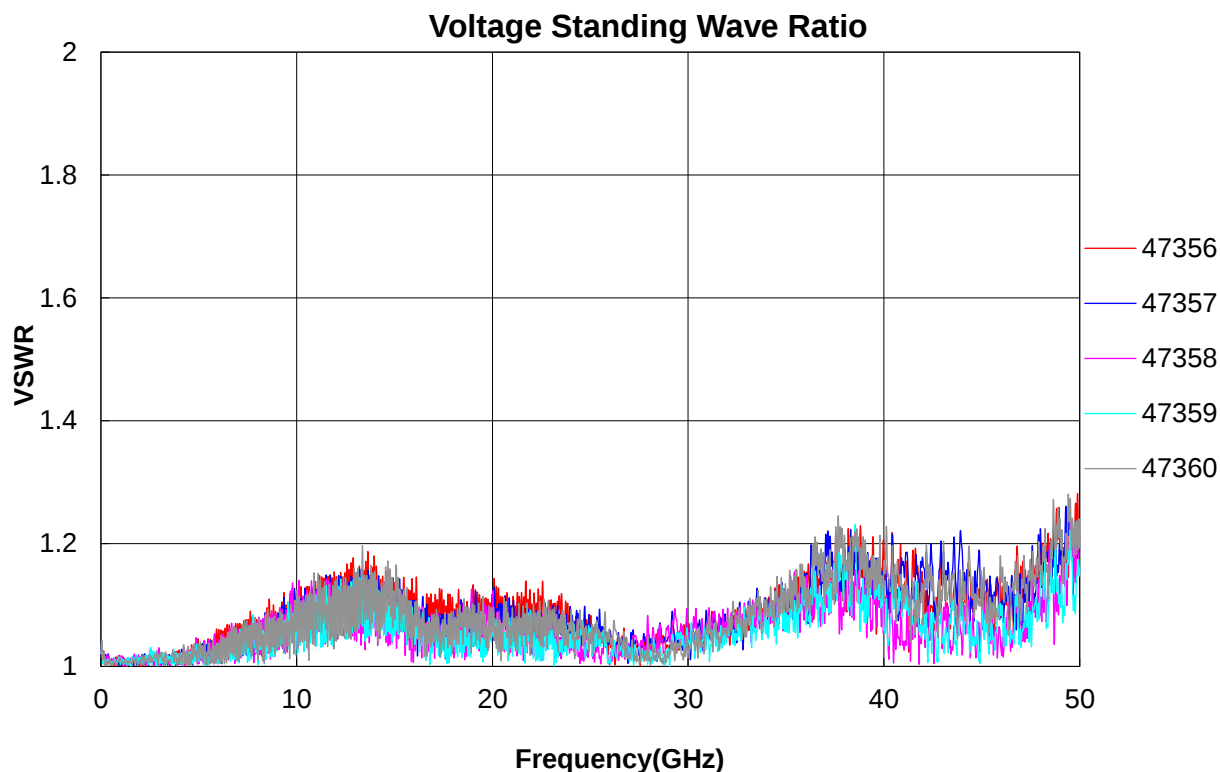
Series: RF047-A

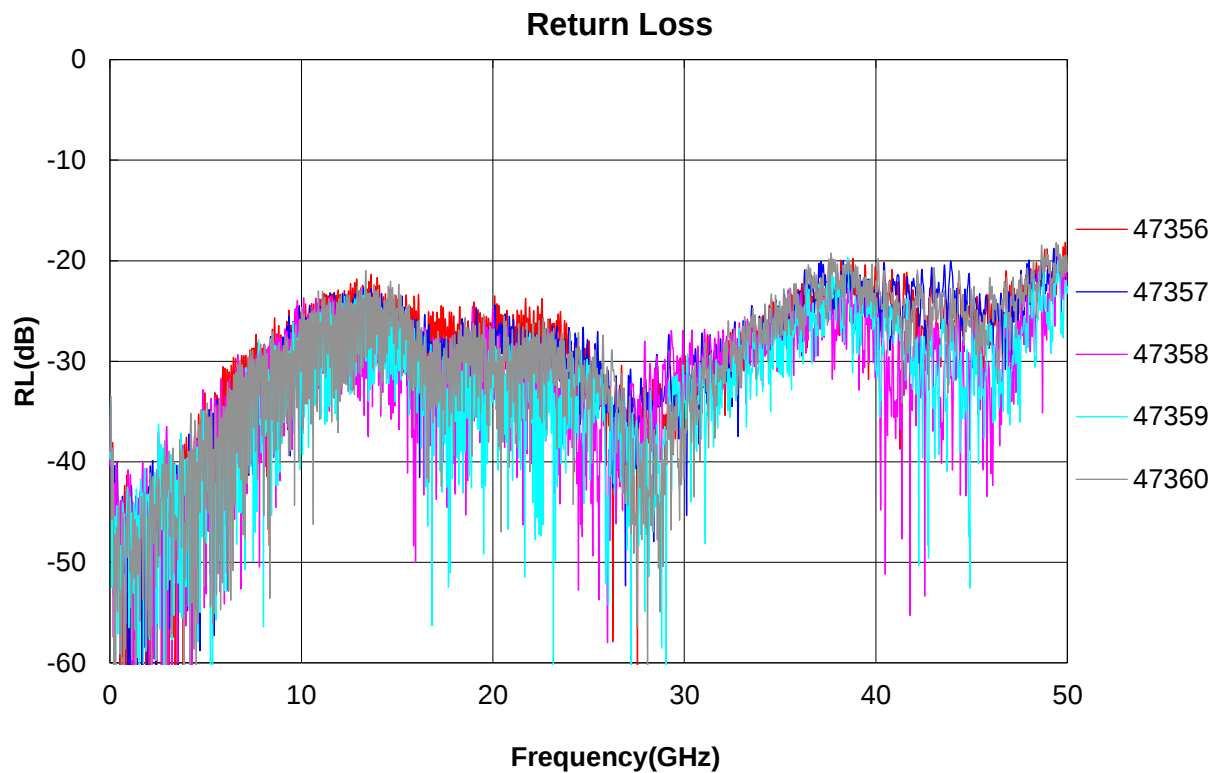
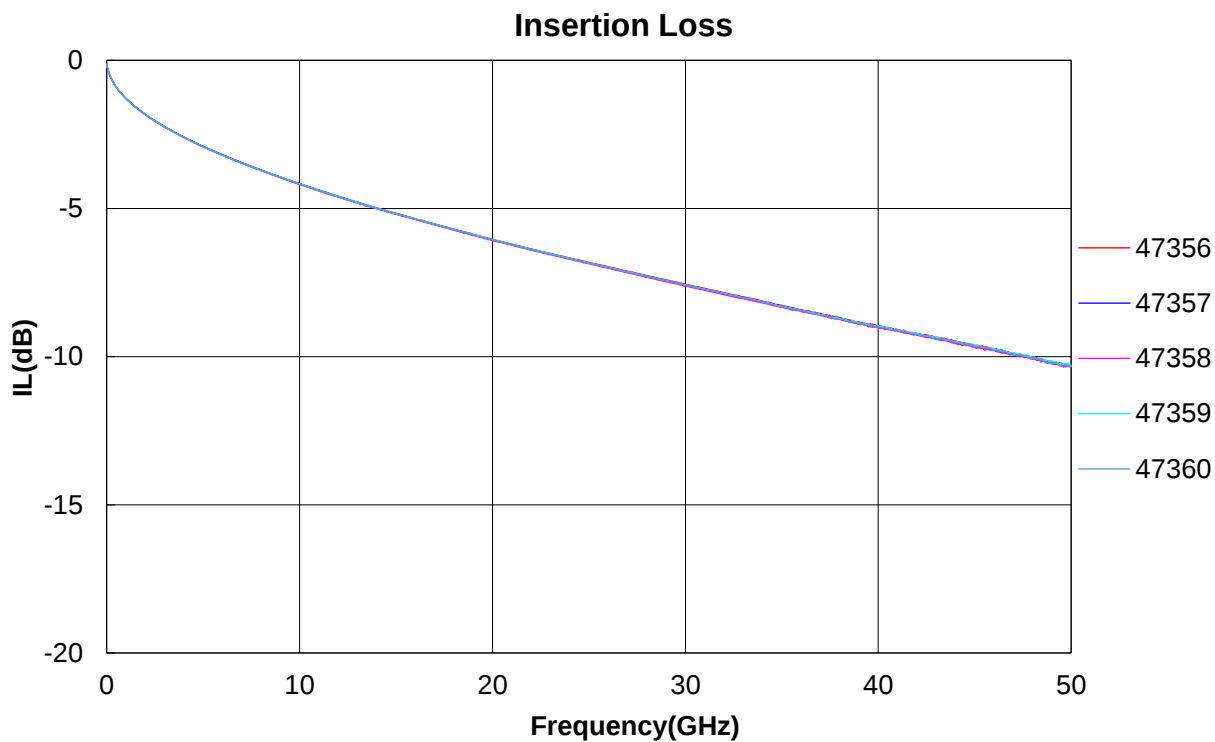
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly

Results: RF047-A-24SJ-24SJ-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
47356	1.28 @ 49.89 GHz	-18.17 @ 49.89 GHz	-10.32 dB @ 49.93 GHz
47357	1.26 @ 49.29 GHz	-18.76 @ 49.29 GHz	-10.30 dB @ 49.98 GHz
47358	1.24 @ 49.61 GHz	-19.54 @ 49.61 GHz	-10.35 dB @ 49.96 GHz
47359	1.23 @ 38.53 GHz	-19.70 @ 38.53 GHz	-10.30 dB @ 50.00 GHz
47360	1.28 @ 49.42 GHz	-18.20 @ 49.42 GHz	-10.34 dB @ 49.96 GHz

VSWR



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

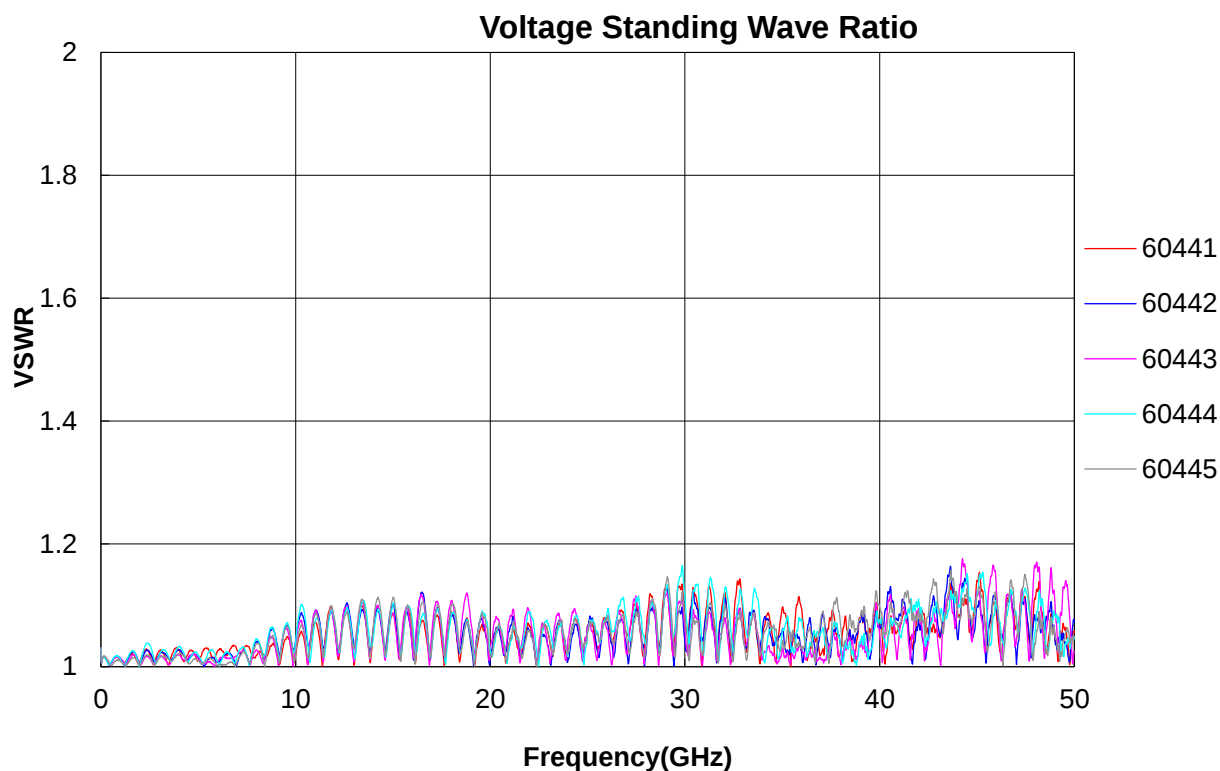
Series: RF047-A

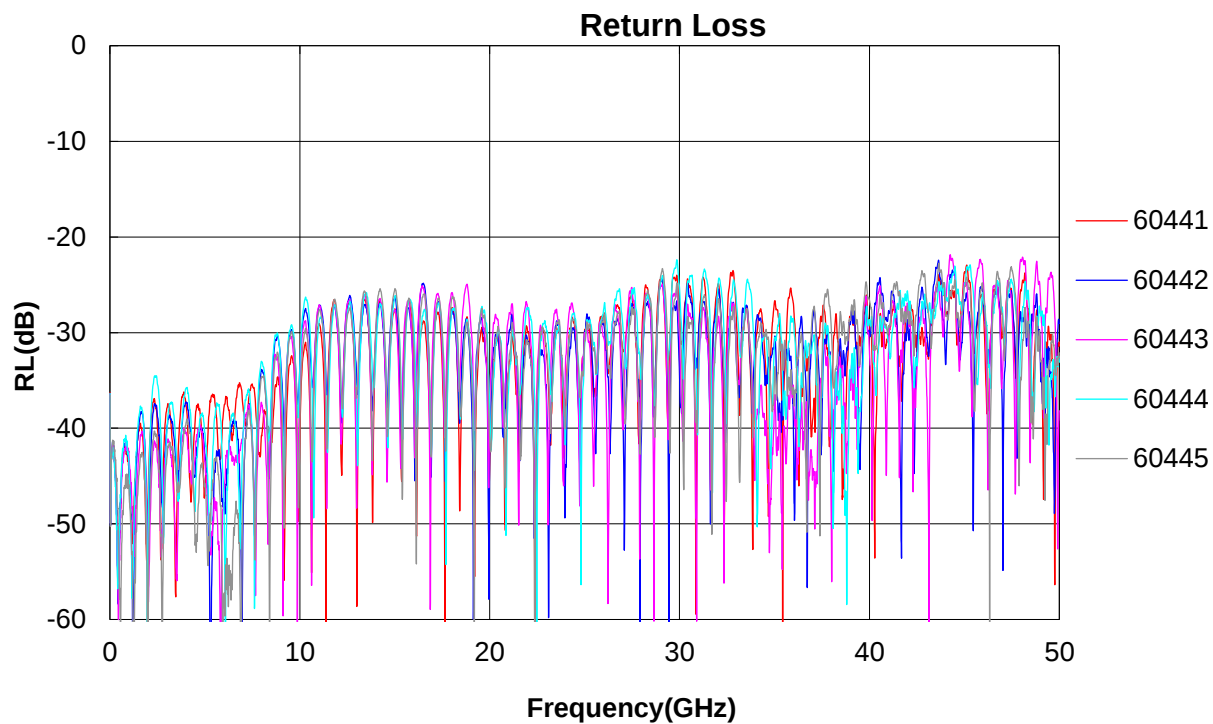
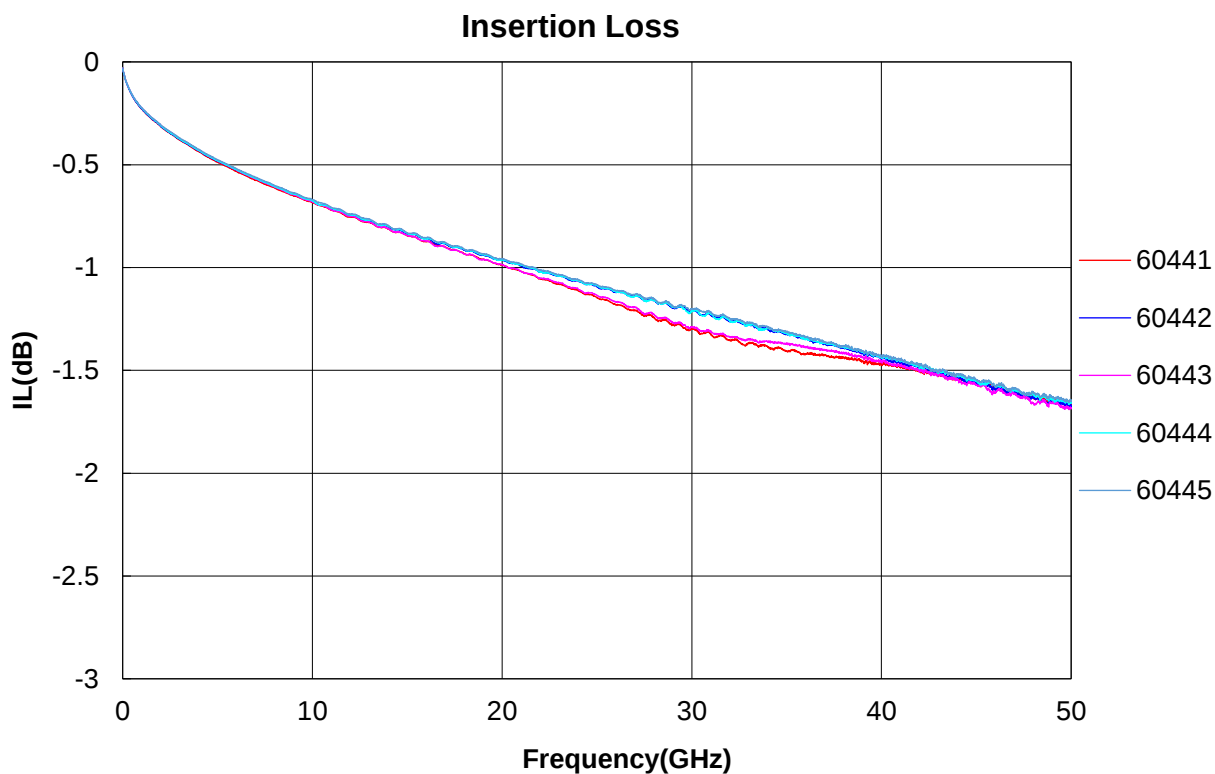
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly

Results: RF047-A-24SP-24SP-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
60441	1.15 @ 45.13 GHz	-22.93 @ 45.13 GHz	-1.67 dB @ 49.89 GHz
60442	1.16 @ 43.64 GHz	-22.43 @ 43.64 GHz	-1.68 dB @ 49.86 GHz
60443	1.18 @ 44.25 GHz	-21.85 @ 44.25 GHz	-1.69 dB @ 49.89 GHz
60444	1.16 @ 29.85 GHz	-22.38 @ 29.85 GHz	-1.67 dB @ 49.89 GHz
60445	1.16 @ 43.65 GHz	-22.75 @ 43.65 GHz	-1.66 dB @ 49.89 GHz

VSWR



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

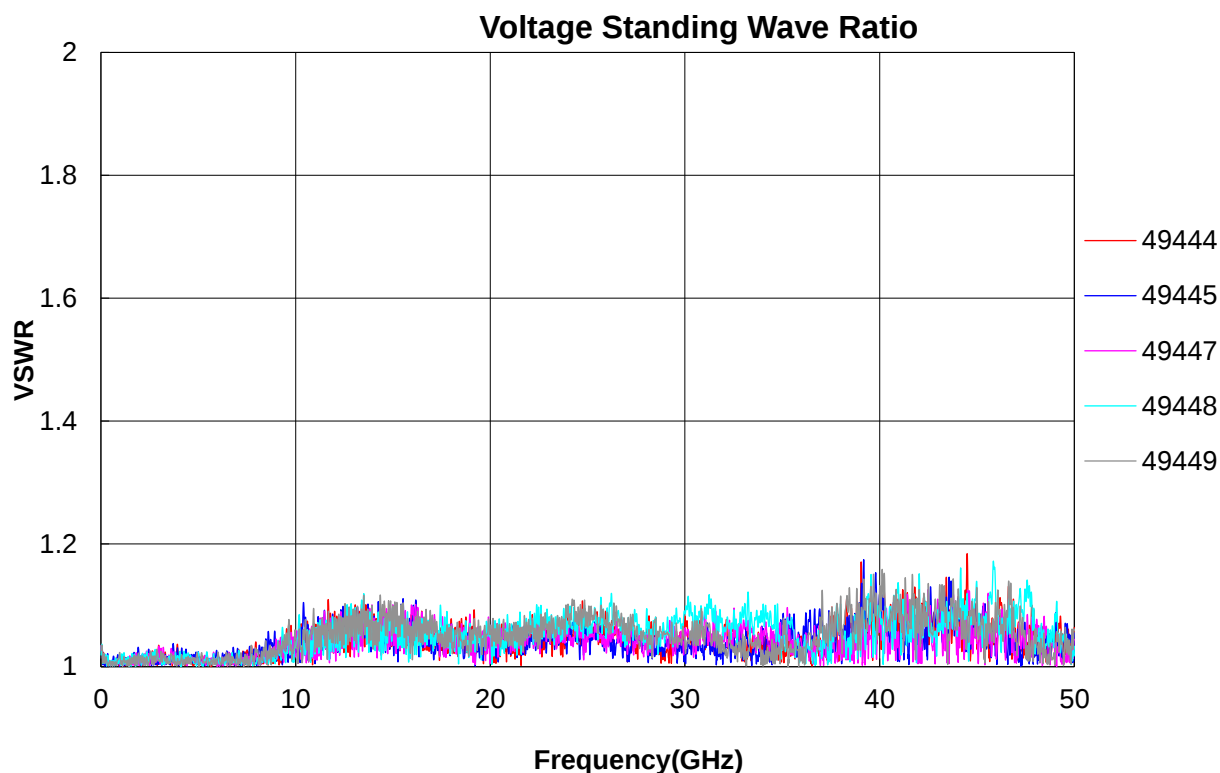
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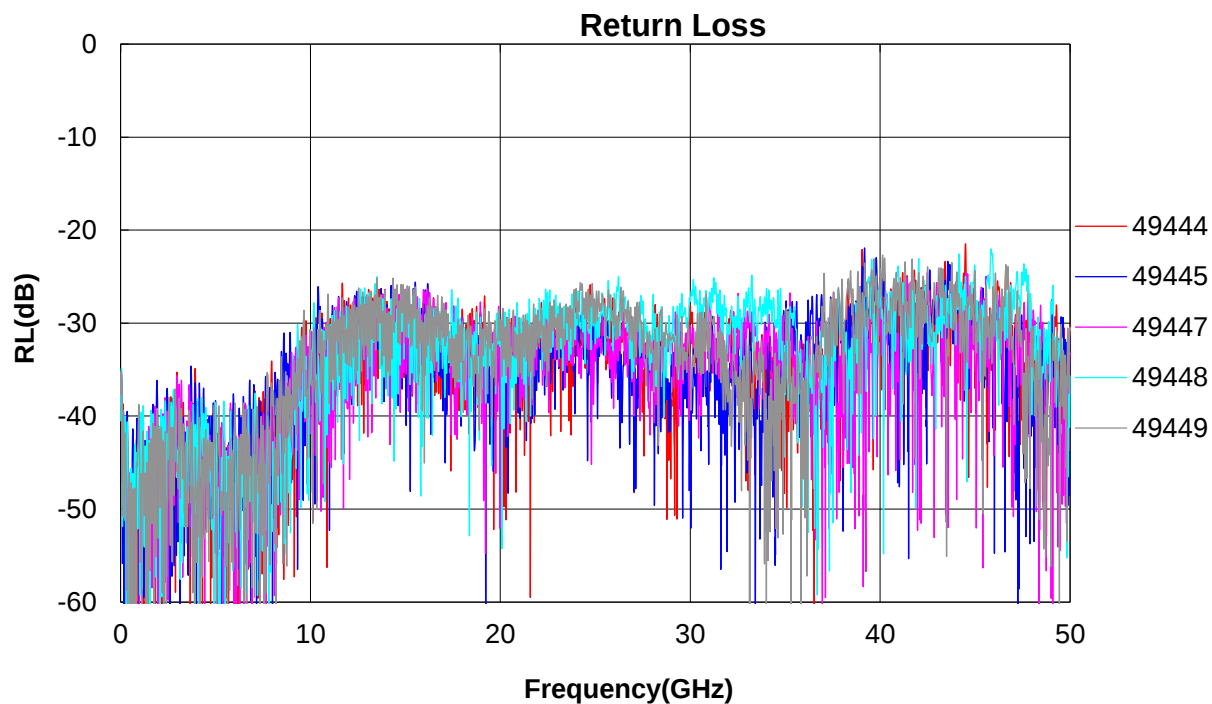
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly

Results: RF047-A-24SP-24SP-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
49444	1.18 @ 44.50 GHz	-21.48 @ 44.50 GHz	-10.11 dB @ 50.00 GHz
49445	1.17 @ 39.18 GHz	-21.92 @ 39.18 GHz	-10.13 dB @ 49.98 GHz
49447	1.13 @ 42.49 GHz	-24.57 @ 42.49 GHz	-10.08 dB @ 49.93 GHz
49448	1.17 @ 45.84 GHz	-22.02 @ 45.84 GHz	-10.09 dB @ 49.97 GHz
49449	1.16 @ 40.13 GHz	-22.68 @ 40.13 GHz	-10.06 dB @ 49.93 GHz

VSWR



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