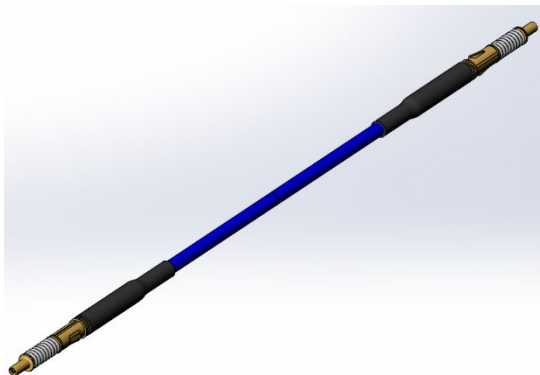


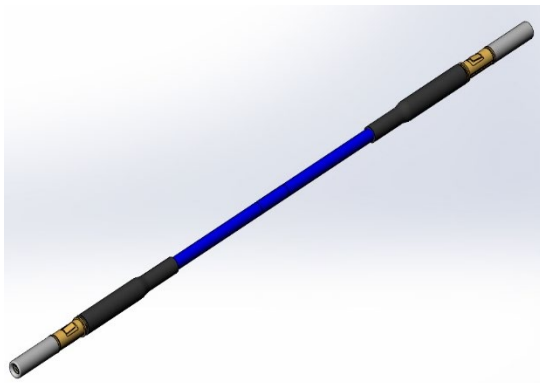


RF Characterization Report

RF047-A-20VP-20VP-XXXX



RF047-A-20VS-20VS-XXXX



Test Date: Jan 2026

Description:
50 Ohm, .047" RF Millimeter Wave Cable Assembly,
Size 20 End Options

Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:.....	1
Calibration Type:.....	1
Adapter Use:.....	1
RF047-A-20XX-20XX-XXXX Test Definition.....	2
Cable Under Test:.....	2
Results: RF047-A-20VP-20VP-0152	3
VSWR	3
Return Loss.....	4
Insertion Loss.....	4
Results: RF047-A-20VP-20VP-1000	5
VSWR	5
Return Loss.....	6
Insertion Loss.....	6
Results: RF047-A-20VS-20VS-0152	7
VSWR	7
Return Loss.....	8
Insertion Loss.....	8
Results: RF047-A-20VS-20VS-1000	9
VSWR	9
Return Loss.....	10
Insertion Loss.....	10

Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 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 Size 20 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	40 GHz
Points	4000
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
-----------------	----------------------

Adapter Use:

Size20 adapters Samtec (PRFBA-S20-J-185-J-S-ASM and PRFBA-S20-P-185-J-S-ASM) were used for the measurement. The adapter effects were removed from the measurement using the PNA's Fixture Removal method.

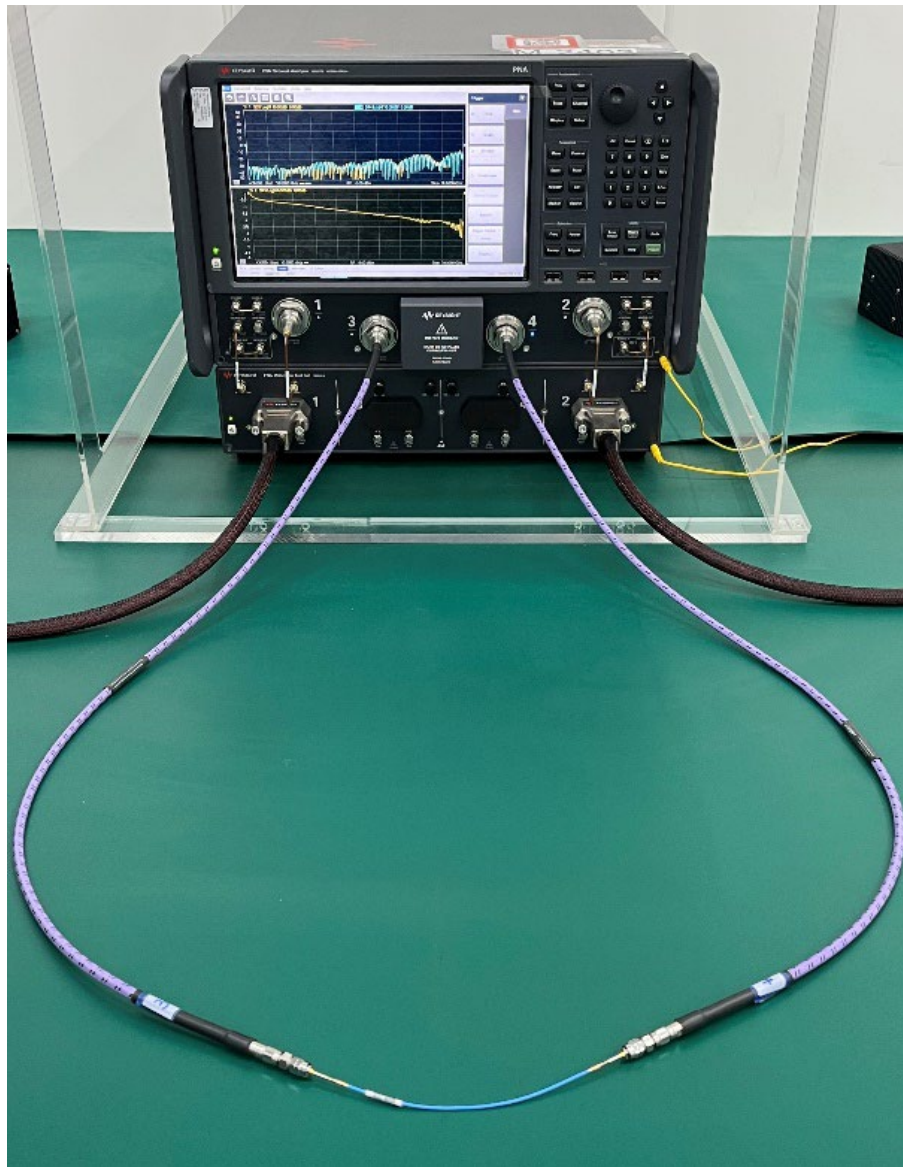
Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

RF047-A-20XX-20XX-XXXX Test Definition

Part Number	End 1	End 2
RF047-A-20VP-20VP-0152	Size 20 Pin (Jack)	Size 20 Pin (Jack)
RF047-A-20VP-20VP-1000	Size 20 Pin (Jack)	Size 20 Pin (Jack)
RF047-A-20VS-20VS-0152	Size 20 Socket (Jack)	Size 20 Socket (Jack)
RF047-A-20VS-20VS-1000	Size 20 Socket (Jack)	Size 20 Socket (Jack)

Cable Under Test:



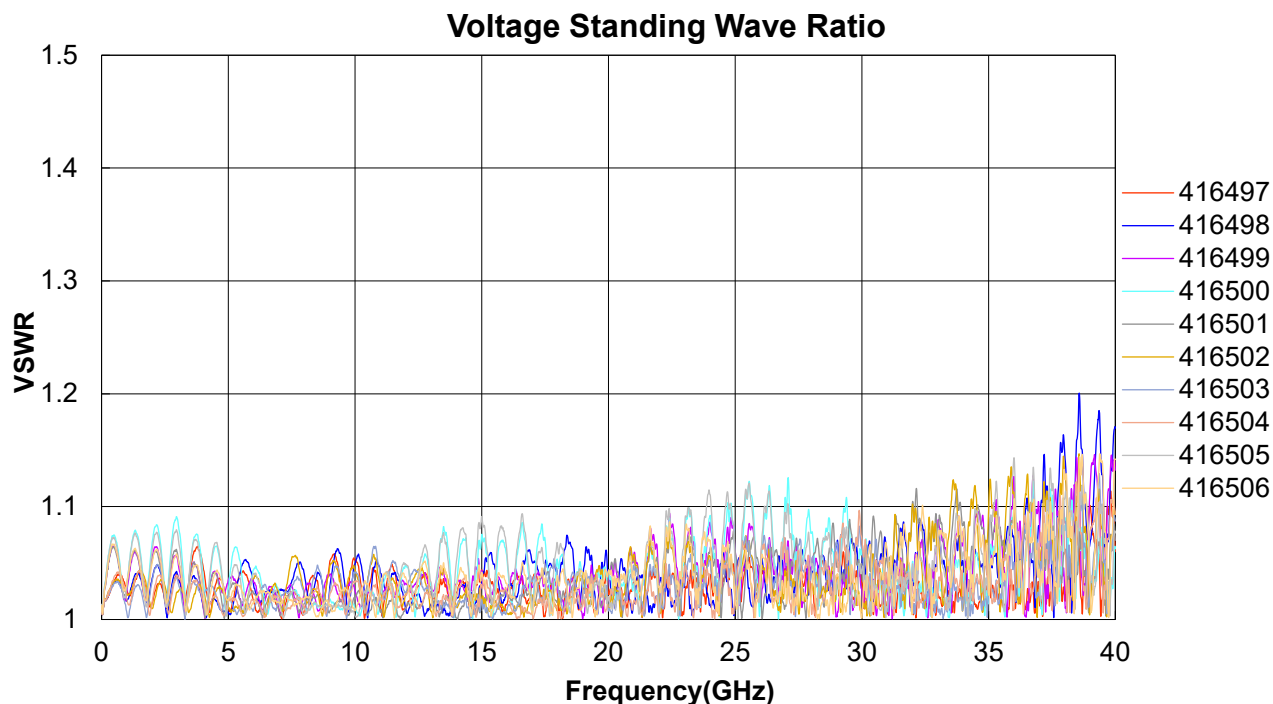
Series: RF047-A

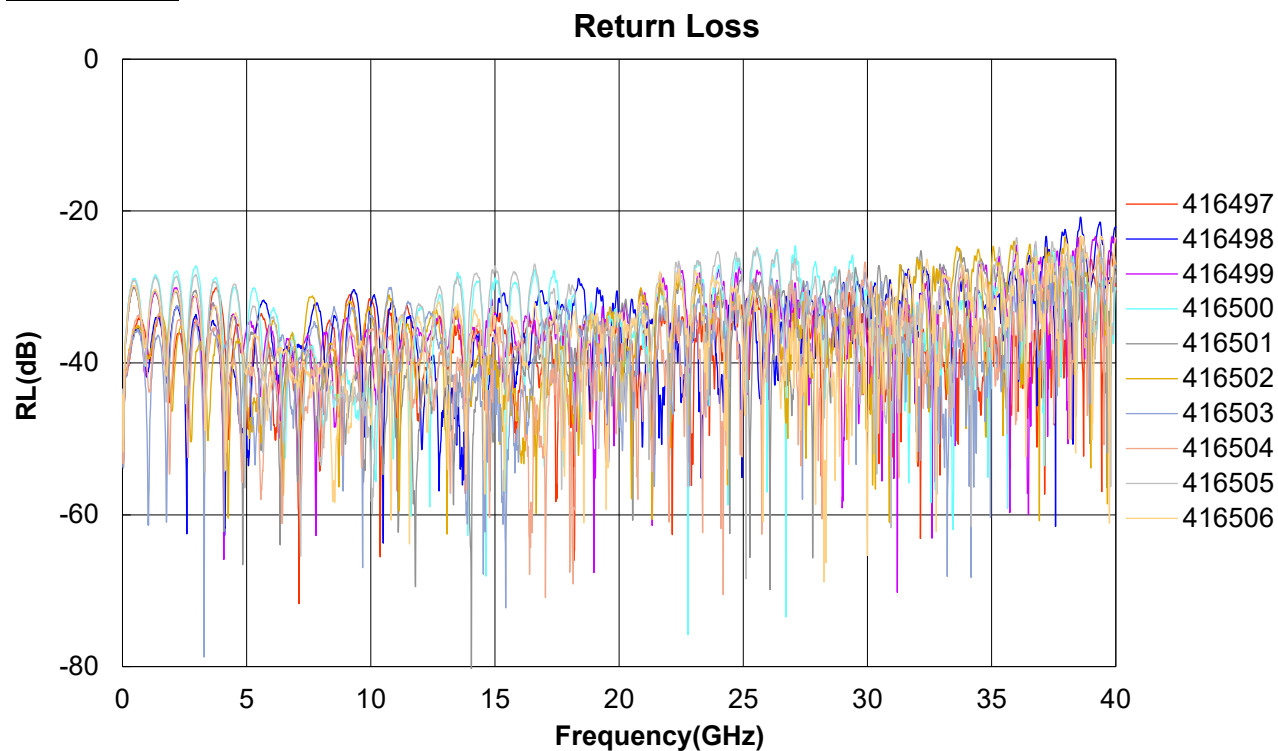
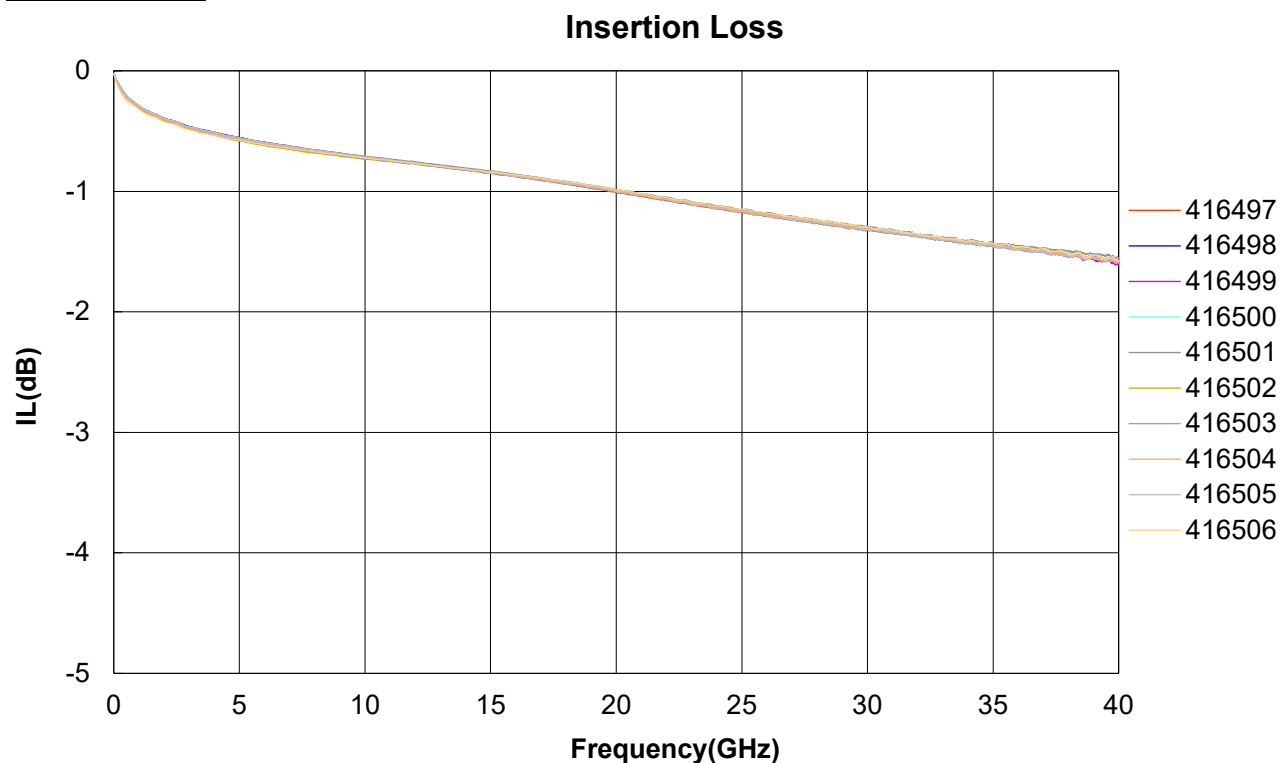
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

Results: RF047-A-20VP-20VP-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
416497	1.11 @ 39.82 GHz	-25.37 @ 39.82 GHz	-1.60 @ 39.87 GHz
416498	1.20 @ 38.58 GHz	-20.81 @ 38.58 GHz	-1.60 @ 39.99 GHz
416499	1.15 @ 39.18 GHz	-23.34 @ 39.18 GHz	-1.61 @ 39.87 GHz
416500	1.13 @ 27.09 GHz	-24.56 @ 27.09 GHz	-1.58 @ 39.99 GHz
416501	1.12 @ 32.15 GHz	-25.21 @ 32.15 GHz	-1.56 @ 39.87 GHz
416502	1.15 @ 38.57 GHz	-23.30 @ 38.57 GHz	-1.59 @ 39.99 GHz
416503	1.13 @ 39.36 GHz	-24.33 @ 39.36 GHz	-1.60 @ 39.99 GHz
416504	1.13 @ 38.56 GHz	-24.47 @ 38.56 GHz	-1.60 @ 39.87 GHz
416505	1.14 @ 36.00 GHz	-23.49 @ 36.00 GHz	-1.58 @ 39.99 GHz
416506	1.15 @ 39.39 GHz	-23.30 @ 39.39 GHz	-1.58 @ 39.99 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options**Return Loss****Insertion Loss**

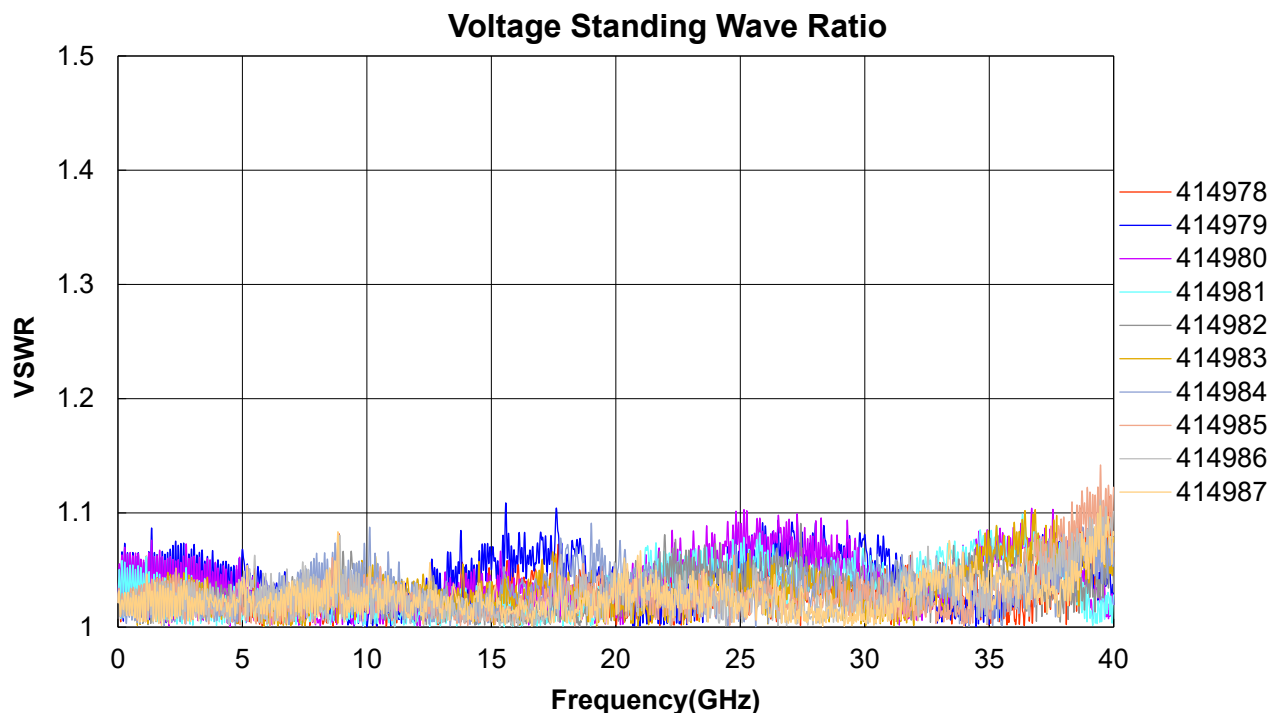
Series: RF047-A

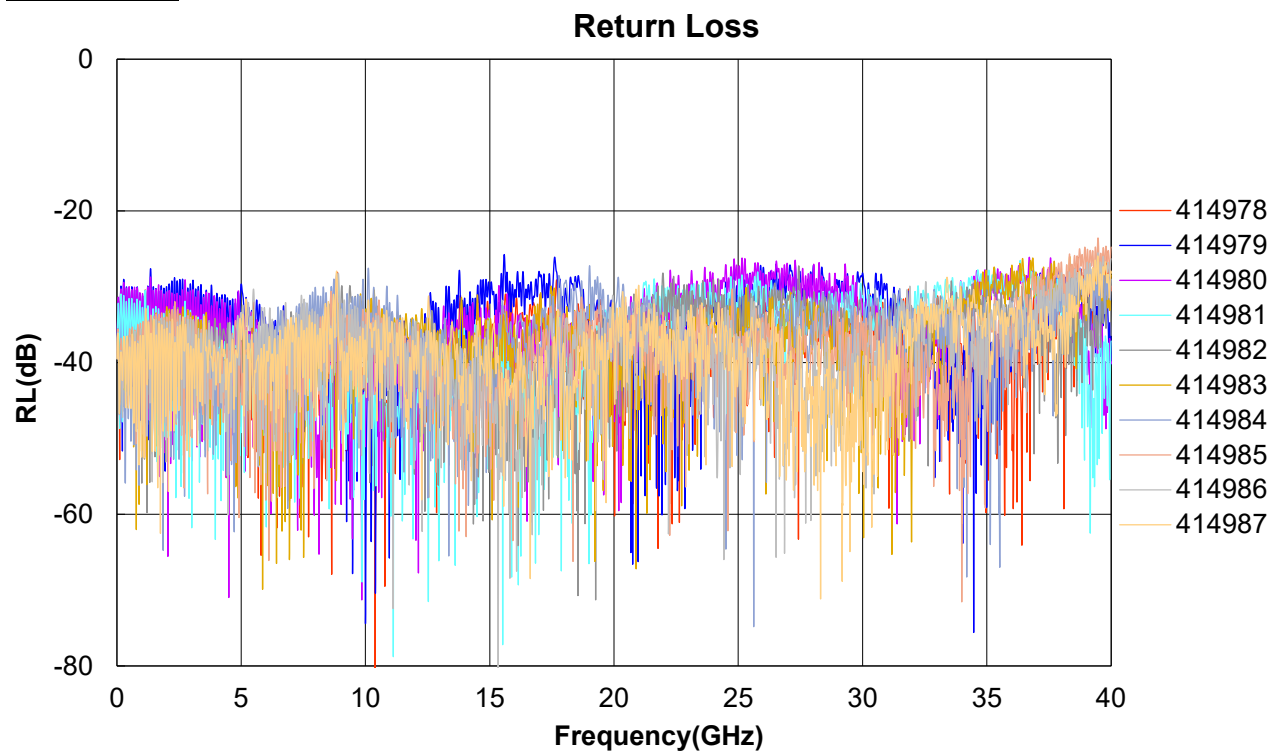
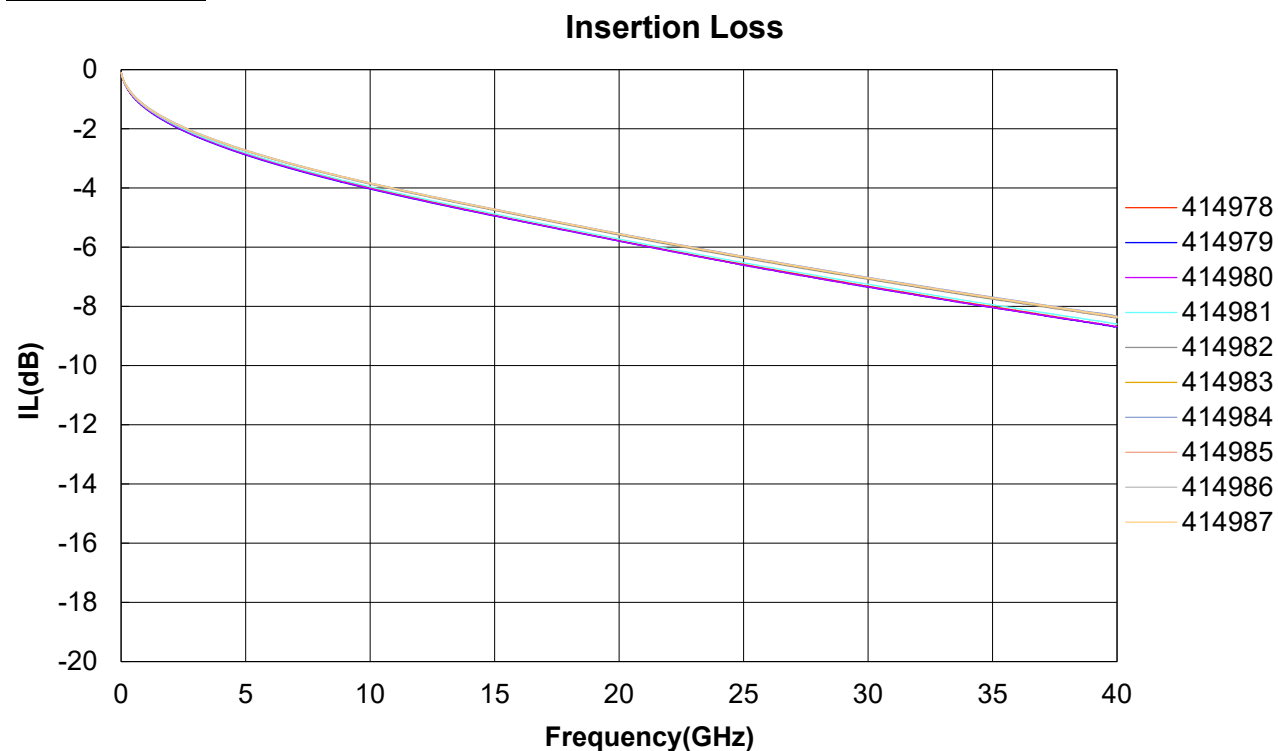
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

Results: RF047-A-20VP-20VP-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
414978	1.11 @ 39.83 GHz	-25.36 @ 39.83 GHz	-8.68 @ 39.99 GHz
414979	1.11 @ 15.58 GHz	-25.75 @ 15.58 GHz	-8.70 @ 39.98 GHz
414980	1.10 @ 36.71 GHz	-26.11 @ 36.71 GHz	-8.68 @ 39.98 GHz
414981	1.10 @ 39.34 GHz	-26.53 @ 39.34 GHz	-8.60 @ 39.99 GHz
414982	1.09 @ 27.43 GHz	-27.24 @ 27.43 GHz	-8.39 @ 39.99 GHz
414983	1.11 @ 39.47 GHz	-25.65 @ 39.47 GHz	-8.36 @ 39.99 GHz
414984	1.09 @ 19.02 GHz	-27.23 @ 19.02 GHz	-8.33 @ 39.91 GHz
414985	1.14 @ 39.47 GHz	-23.57 @ 39.47 GHz	-8.37 @ 39.99 GHz
414986	1.11 @ 39.47 GHz	-25.53 @ 39.47 GHz	-8.37 @ 40.00 GHz
414987	1.11 @ 39.46 GHz	-25.94 @ 39.46 GHz	-8.36 @ 39.99 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End OptionsReturn LossInsertion Loss

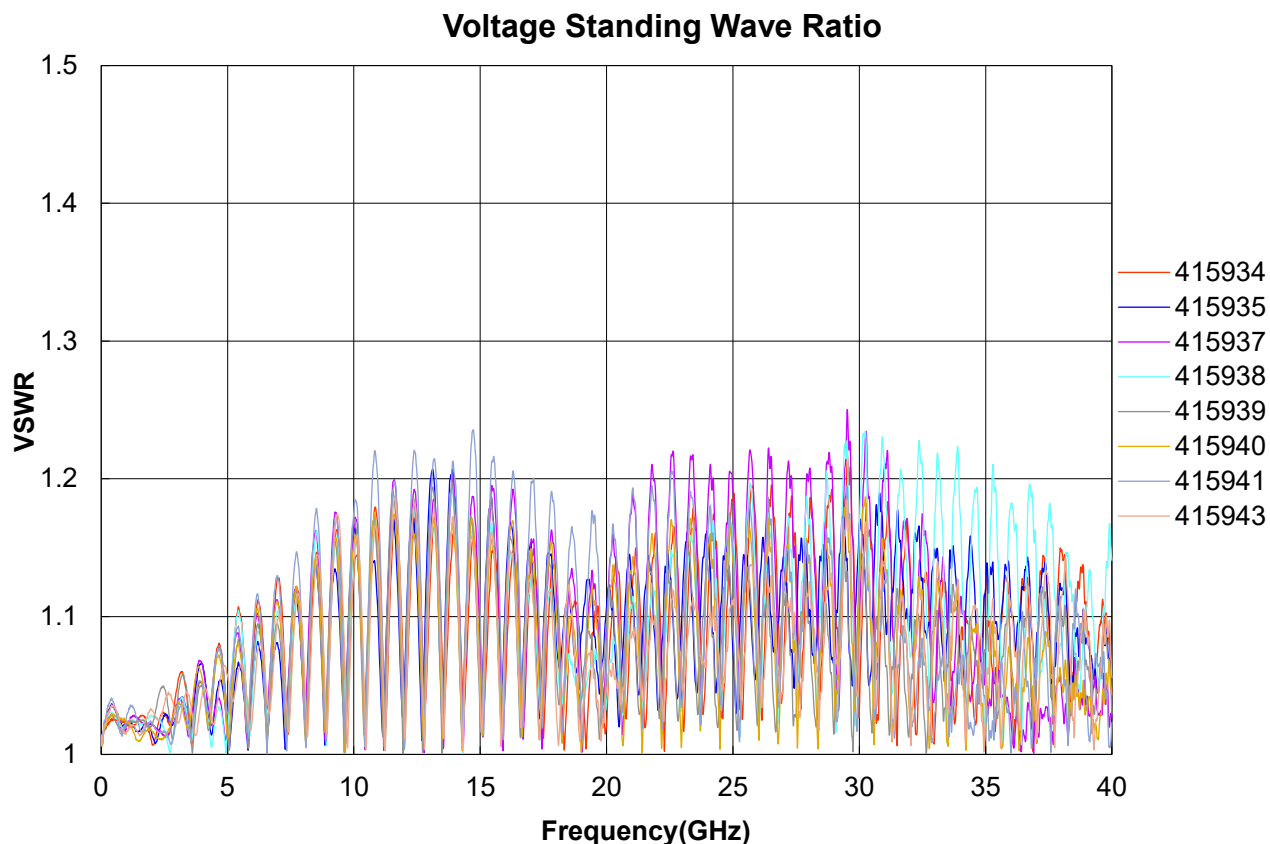
Series: RF047-A

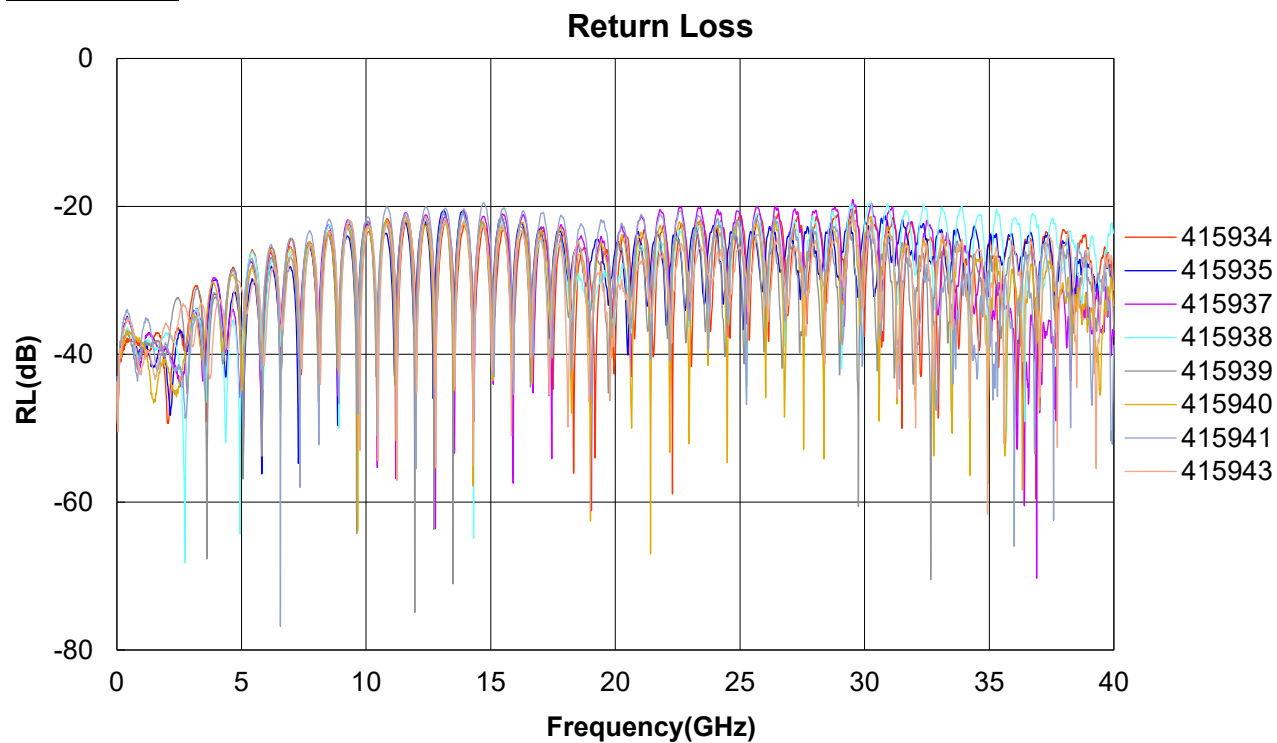
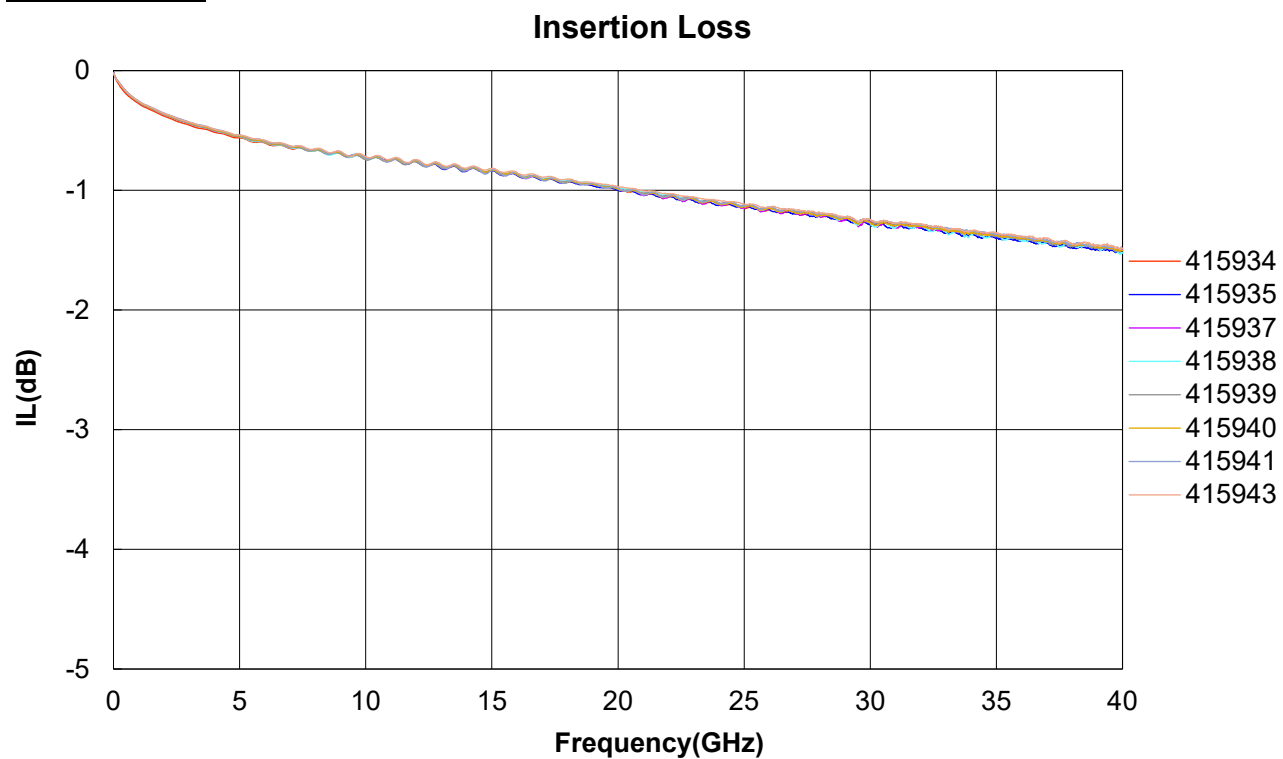
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

Results: RF047-A-20VS-20VS-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
415934	1.22 @ 29.53 GHz	-20.22 @ 29.53 GHz	-1.51 @ 39.72 GHz
415935	1.21 @ 13.90 GHz	-20.55 @ 13.90 GHz	-1.53 @ 39.91 GHz
415937	1.25 @ 29.53 GHz	-19.08 @ 29.53 GHz	-1.50 @ 39.87 GHz
415938	1.23 @ 30.24 GHz	-19.58 @ 30.24 GHz	-1.54 @ 39.91 GHz
415939	1.20 @ 13.90 GHz	-20.93 @ 13.90 GHz	-1.51 @ 39.72 GHz
415940	1.19 @ 29.52 GHz	-21.29 @ 29.52 GHz	-1.51 @ 39.91 GHz
415941	1.24 @ 14.72 GHz	-19.54 @ 14.72 GHz	-1.49 @ 39.91 GHz
415943	1.19 @ 11.61 GHz	-21.39 @ 11.61 GHz	-1.49 @ 39.91 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options**Return Loss****Insertion Loss**

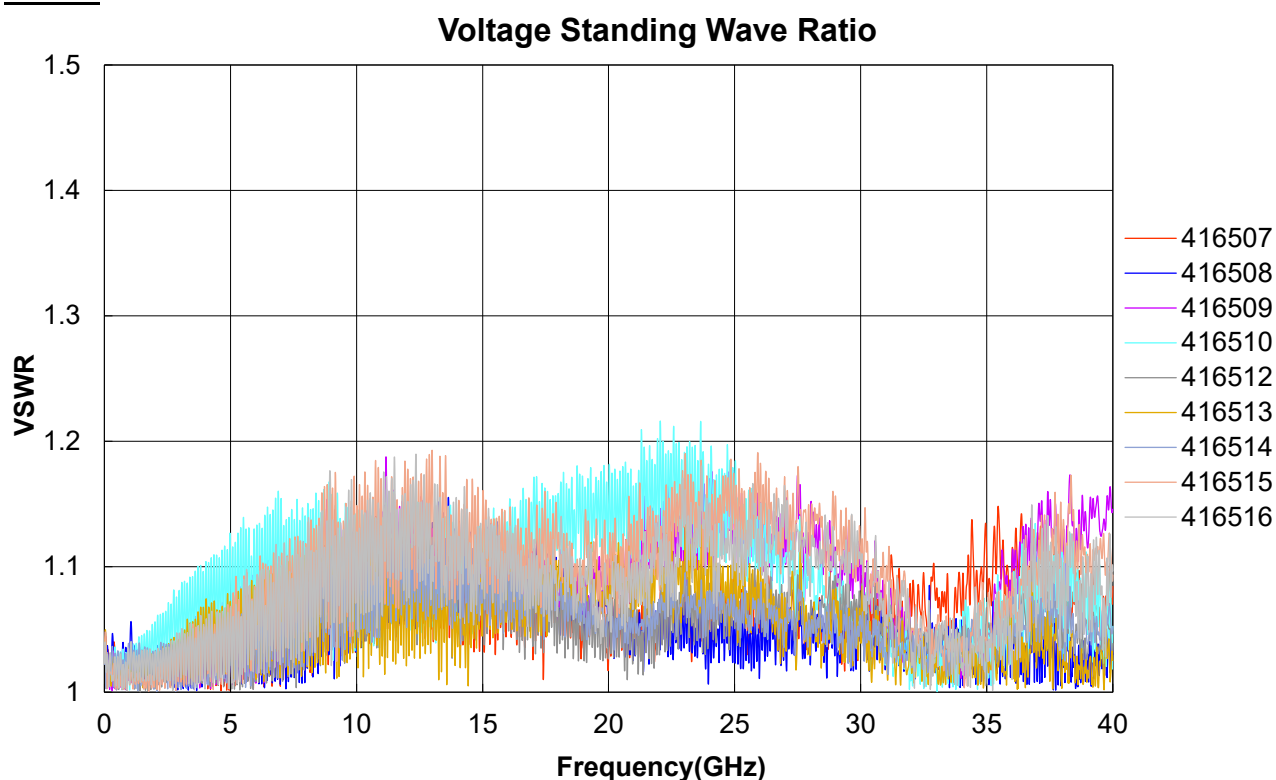
Series: RF047-A

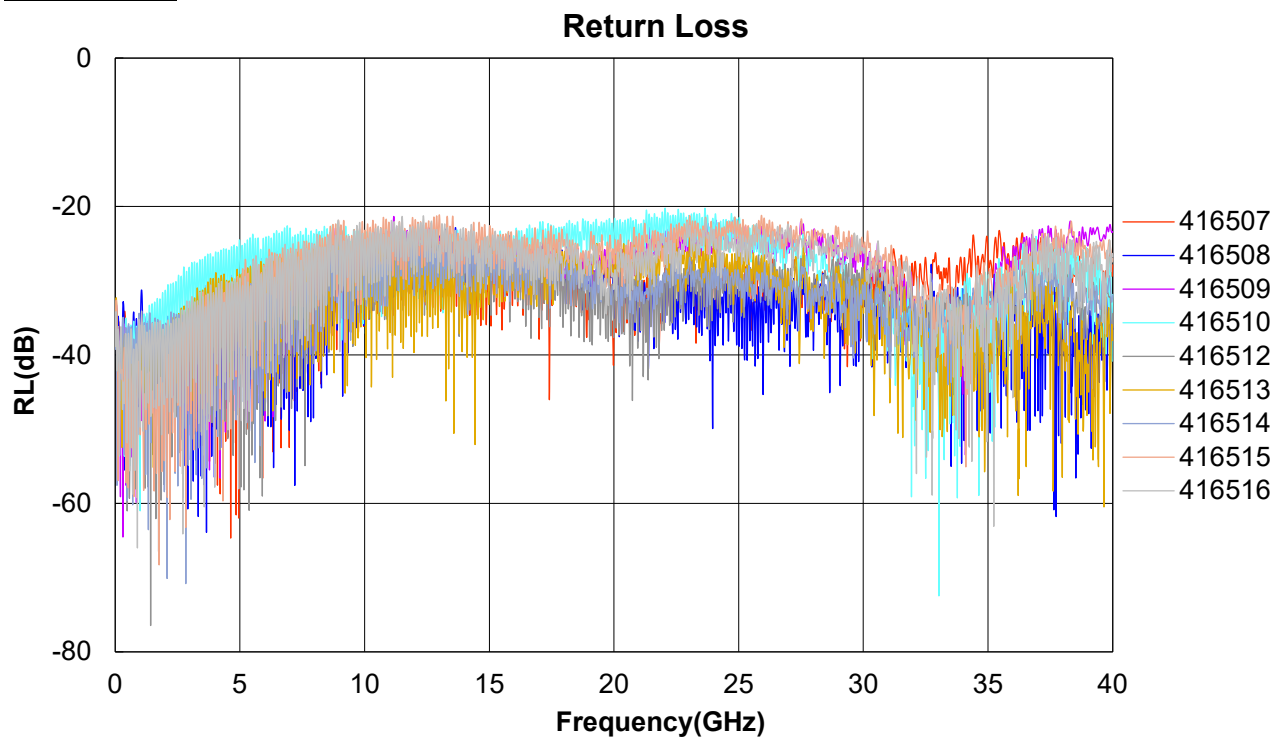
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End Options

Results: RF047-A-20VS-20VS-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
416507	1.15 @ 10.97 GHz	-22.92 @ 10.97 GHz	-8.97 @ 39.91 GHz
416508	1.16 @ 13.64 GHz	-22.85 @ 13.64 GHz	-9.04 @ 39.91 GHz
416509	1.19 @ 11.17 GHz	-21.33 @ 11.17 GHz	-9.10 @ 39.99 GHz
416510	1.22 @ 22.05 GHz	-20.22 @ 22.05 GHz	-9.08 @ 39.91 GHz
416512	1.15 @ 9.15 GHz	-23.36 @ 9.15 GHz	-9.03 @ 40.00 GHz
416513	1.13 @ 23.04 GHz	-24.08 @ 23.04 GHz	-9.02 @ 39.99 GHz
416514	1.16 @ 11.19 GHz	-22.52 @ 11.19 GHz	-9.02 @ 40.00 GHz
416515	1.19 @ 13.00 GHz	-21.11 @ 13.00 GHz	-8.86 @ 39.89 GHz
416516	1.19 @ 12.36 GHz	-21.24 @ 12.36 GHz	-8.84 @ 40.00 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Size 20 End OptionsReturn LossInsertion Loss