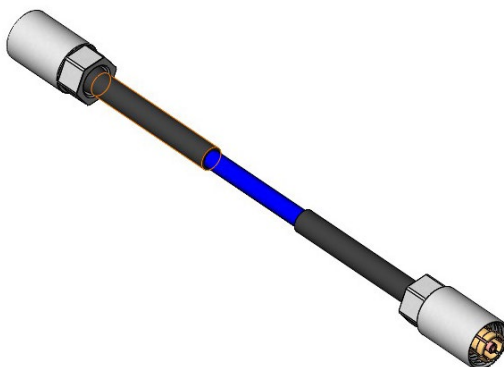




RF Characterization Report

RF047-A-MTSJ-MTSJ-XXXX



Test Date: Dec 2025

Description:
50 Ohm, .047" RF Millimeter Wave Cable Assembly,
Threaded SMPM Jack End Option

Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End
Option

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Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End Option

Test Setup Information

Scope:

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

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	65 GHz
Points	6500
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:

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

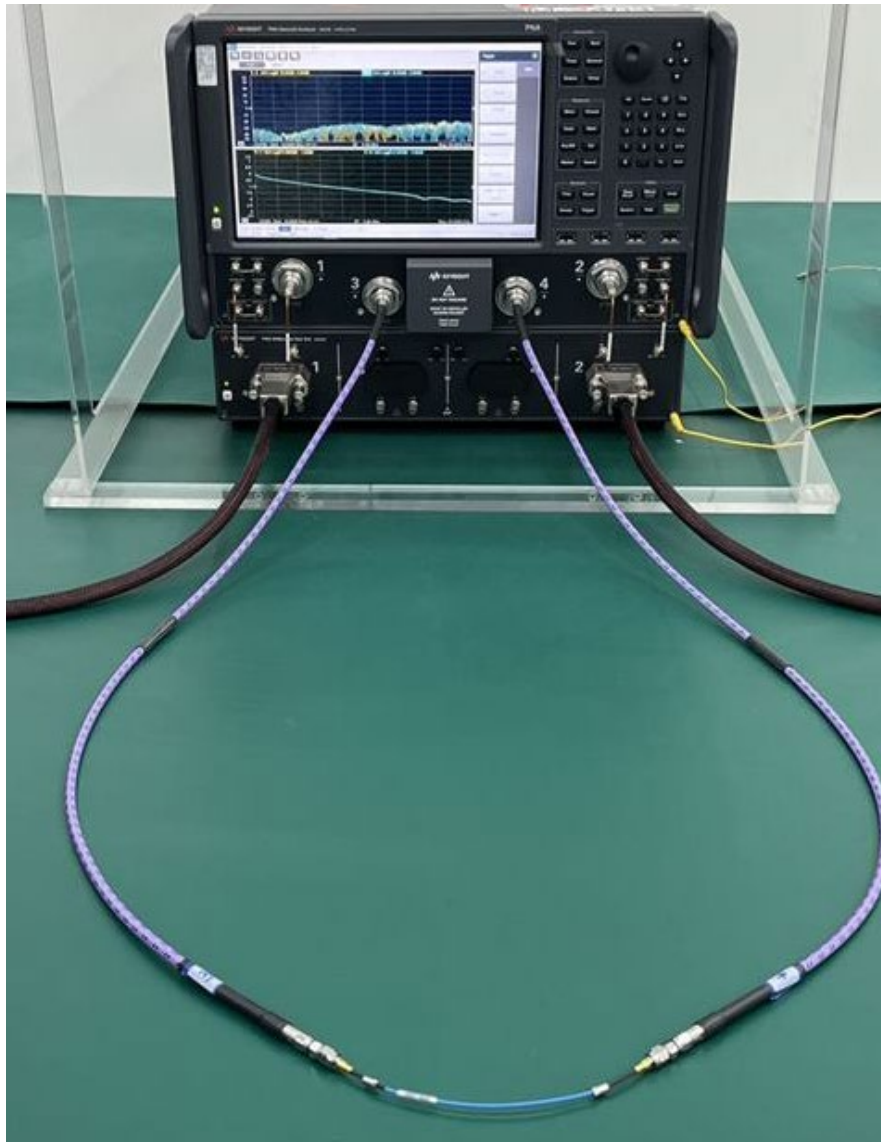
Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End Option

RF047-A-MTSJ-MTSJ-XXXX Test Definition

Part Number	End 1	End 2
RF047-A-MTSJ-MTSJ-0152	SMPM Jack	SMPM Jack
RF047-A-MTSJ-MTSJ-1000	SMPM Jack	SMPM Jack

Cable Under Test:



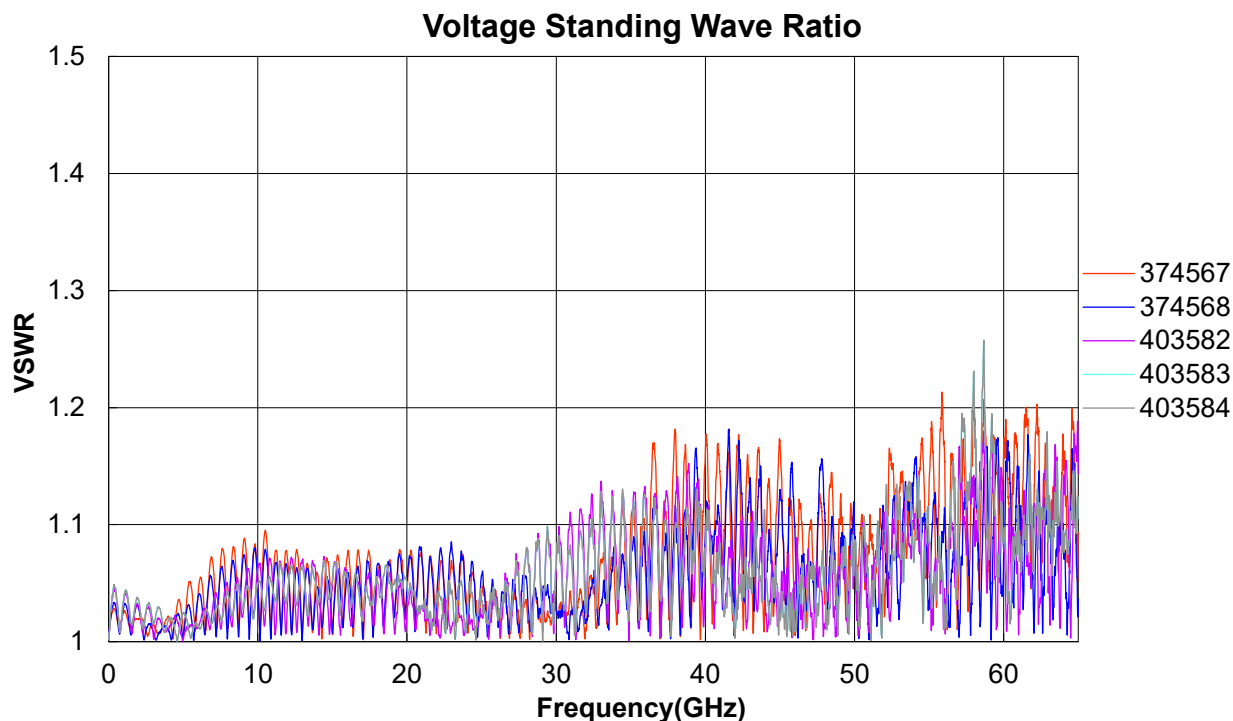
Series: RF047-A

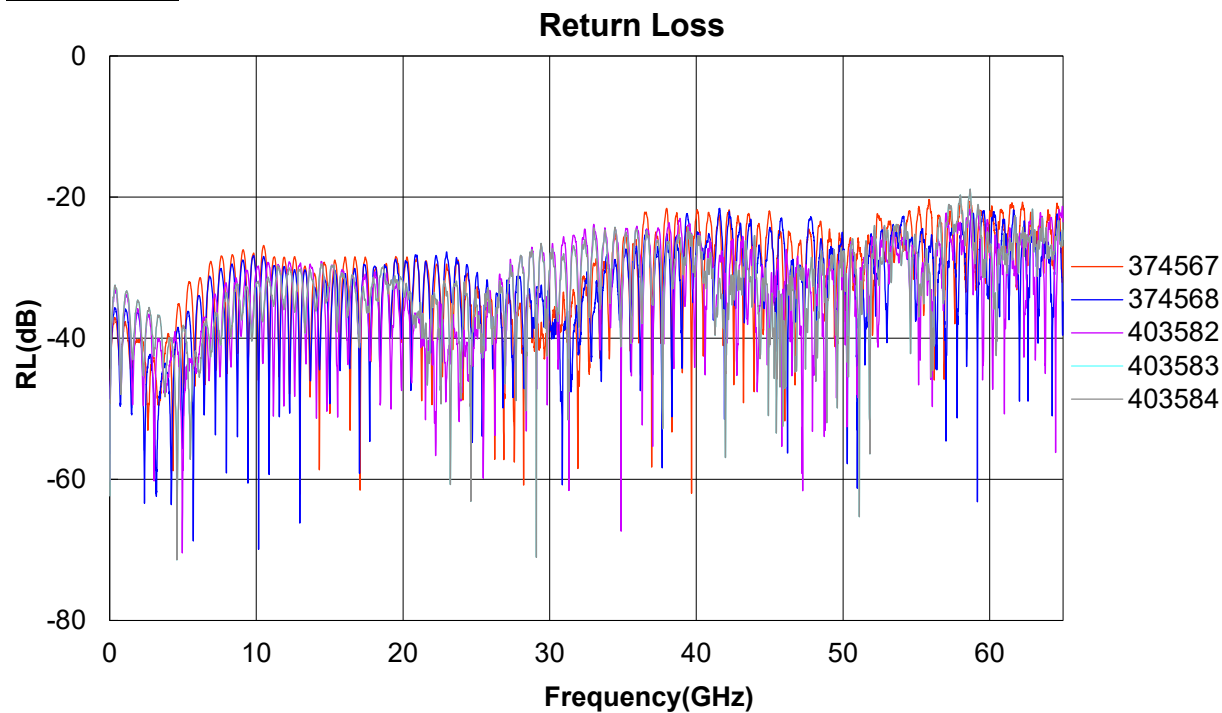
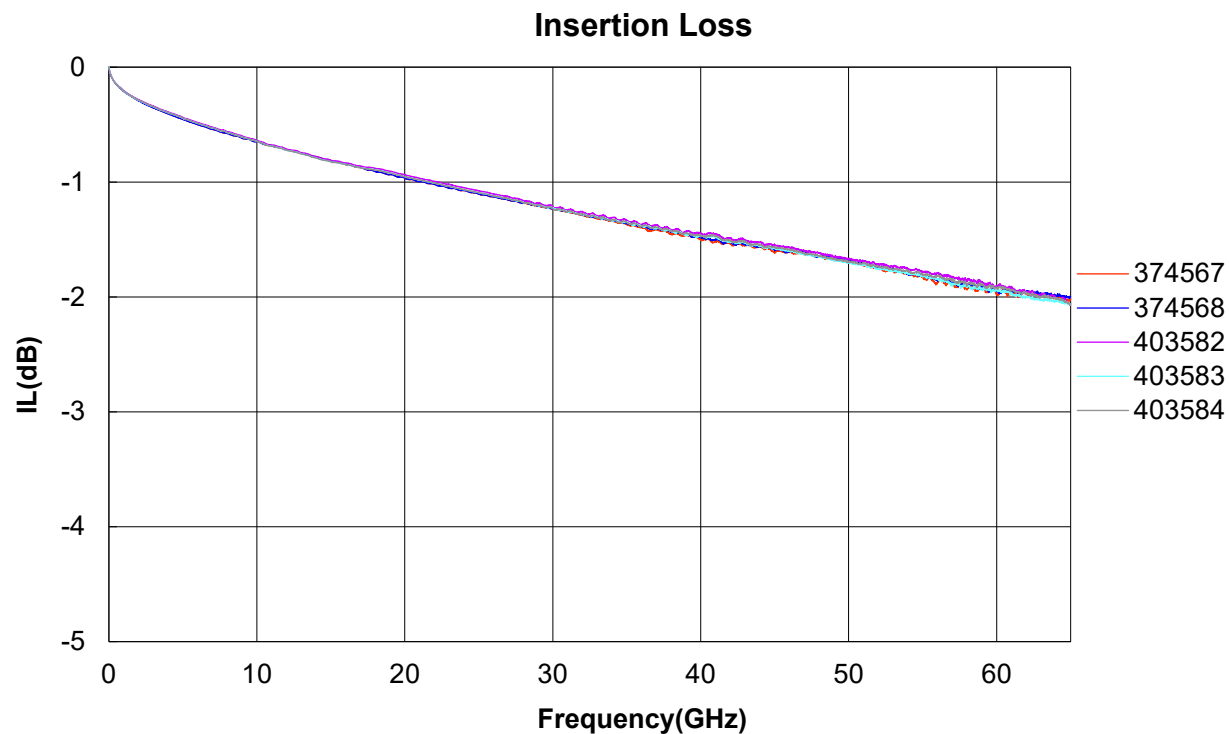
Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End Option

Results: RF047-A-MTSJ-MTSJ-0152

Description: RF047-A High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-40 (GHz)	SWR (Max) 40-65 (GHz)	RL (dB, max) DC-40 (GHz)	RL (dB, max) 40-65 (GHz)	IL (dB, min) DC-40 (GHz)	IL (dB, min) 40-65 (GHz)
374567	1.18 @ 39.97 GHz	1.21 @ 55.86 GHz	-21.59 @ 39.97 GHz	-20.32 @ 55.86 GHz	-1.51 @ 40.00 GHz	-2.04 @ 64.92 GHz
374568	1.17 @ 39.38 GHz	1.18 @ 41.58 GHz	-22.33 @ 39.38 GHz	-21.59 @ 41.58 GHz	-1.48 @ 39.72 GHz	-2.01 @ 64.59 GHz
403582	1.15 @ 38.88 GHz	1.19 @ 64.95 GHz	-23.01 @ 38.88 GHz	-21.31 @ 64.95 GHz	-1.45 @ 39.97 GHz	-2.07 @ 64.94 GHz
403583	1.15 @ 39.69 GHz	1.21 @ 56.99 GHz	-23.33 @ 39.69 GHz	-20.50 @ 56.99 GHz	-1.48 @ 39.78 GHz	-2.07 @ 64.94 GHz
403584	1.13 @ 34.45 GHz	1.26 @ 58.67 GHz	-24.26 @ 34.45 GHz	-18.86 @ 58.67 GHz	-1.47 @ 39.97 GHz	-2.07 @ 64.94 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End OptionReturn LossInsertion Loss

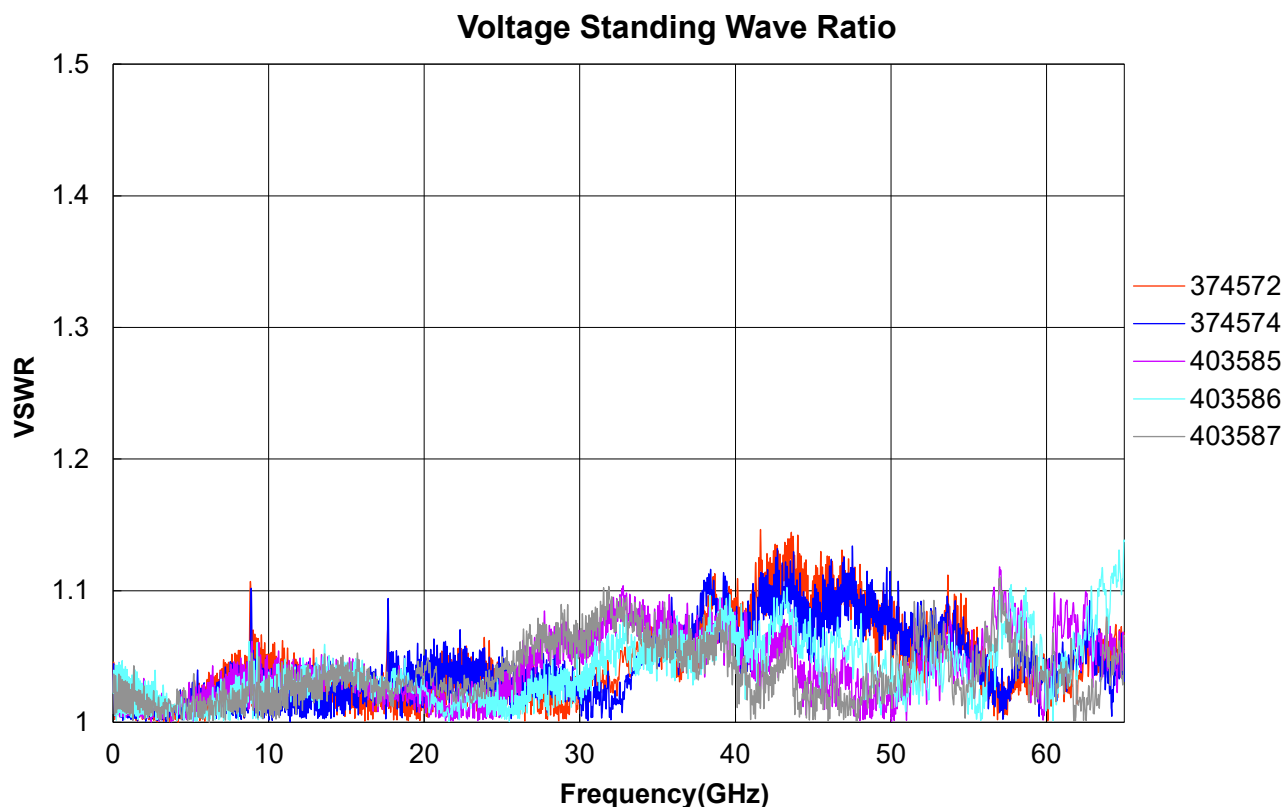
Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End Option

Results: RF047-A-MTSJ-MTSJ-1000

Description: RF047-A High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-40 (GHz)	SWR (Max) 40-65 (GHz)	RL (dB, max) DC-40 (GHz)	RL (dB, max) 40-65 (GHz)	IL (dB, min) DC-40 (GHz)	IL (dB, min) 40-65 (GHz)
374572	1.11 @ 38.68 GHz	1.15 @ 41.62 GHz	-25.44 @ 38.68 GHz	-23.32 @ 41.62 GHz	-8.51 @ 39.97 GHz	-11.47 @ 64.96 GHz
374574	1.12 @ 38.41 GHz	1.13 @ 47.52 GHz	-25.21 @ 38.41 GHz	-24.04 @ 47.52 GHz	-8.47 @ 40.00 GHz	-11.50 @ 64.99 GHz
403585	1.10 @ 32.79 GHz	1.12 @ 56.98 GHz	-26.13 @ 32.79 GHz	-25.07 @ 56.98 GHz	-8.48 @ 39.97 GHz	-11.51 @ 65.00 GHz
403586	1.10 @ 39.64 GHz	1.14 @ 64.98 GHz	-26.69 @ 39.64 GHz	-23.77 @ 64.98 GHz	-8.50 @ 39.97 GHz	-11.86 @ 64.94 GHz
403587	1.10 @ 31.87 GHz	1.11 @ 57.04 GHz	-26.18 @ 31.87 GHz	-26.65 @ 57.04 GHz	-8.45 @ 39.97 GHz	-11.48 @ 65.00 GHz

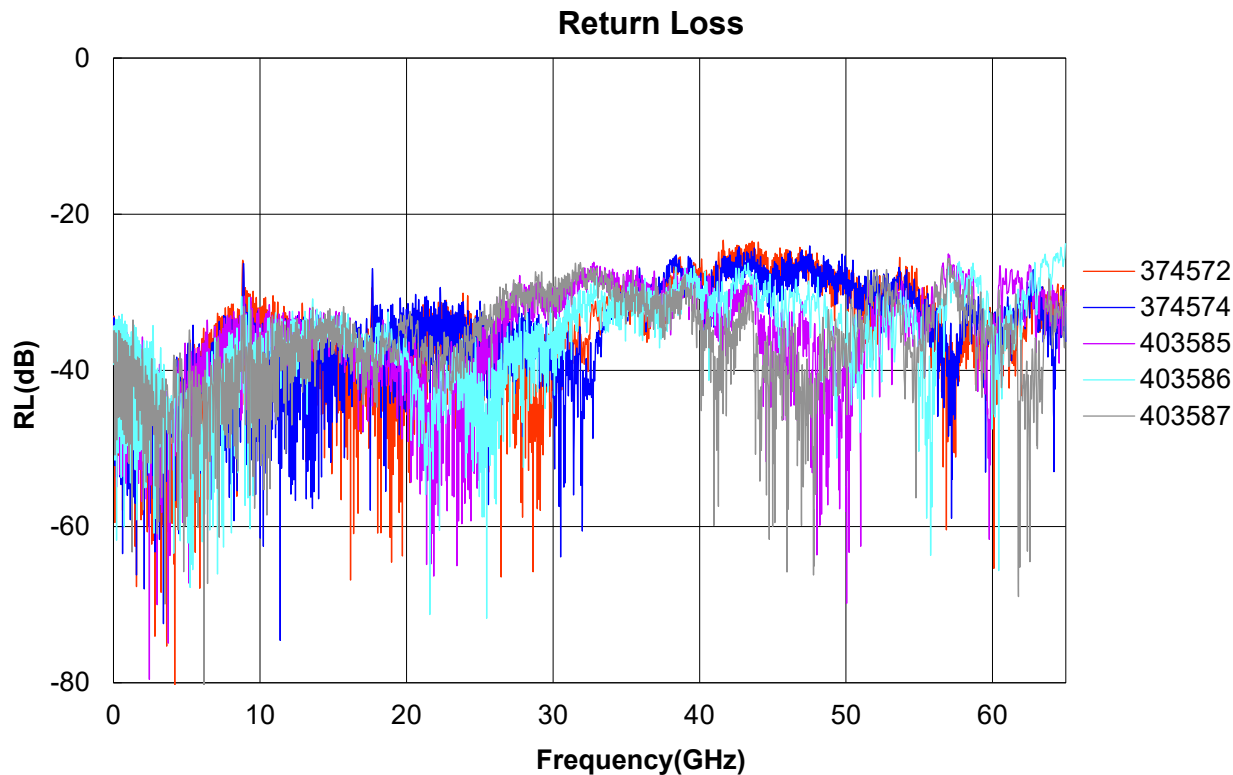
VSWR



Series: RF047-A

Description: 50 Ohm, .047" RF Millimeter Wave Cable Assembly, Threaded SMPM Jack End Option

Return Loss



Insertion Loss

