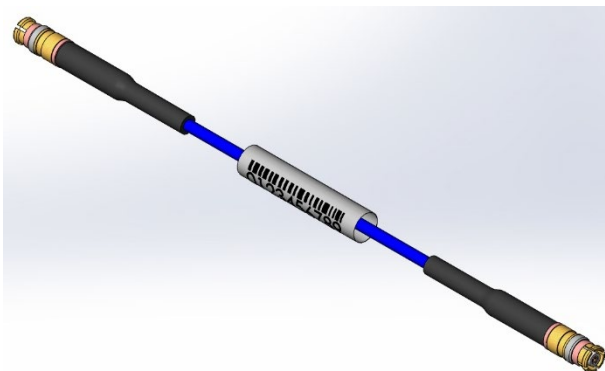


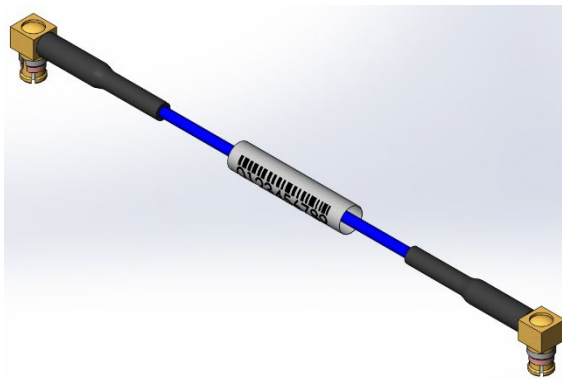


RF Characterization Report

RF047-A-00SJ-00SJ-XXXX



RF047-A-00MJ-00MJ-XXXX



Test Date: Jun 2024

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

Series: RF047-A**Description:** 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP Jack End Option

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Series: RF047-A

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

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF047-A 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	43 GHz
Points	4300
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed using the Keysight 85056A 2.4mm Mechanical Calibration kit.

Calibration Kit	Keysight 85056A Mechanical Calibration Kit
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Adapter Use:

MADP-5478 adapter was used for the measurements. The adapter effects were removed from the measurement using Keysight AFR in PLTS.

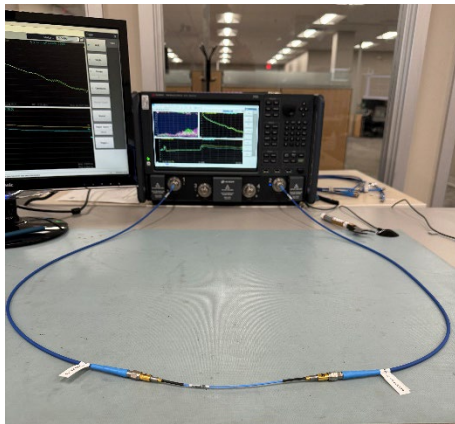
Series: RF047-A

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

RF047-A-00XX-00XX-XXXX Test Definition

Part Number	End 1	End 2
RF047-A-00SJ-00SJ-XXXX	SMP Jack	SMP Jack
RF047-A-00MJ-00MJ-XXXX	SMP R/A Jack	SMP R/A Jack

Cable Under Test:



RF047-A-00SJ-00SJ-XXXX



RF047-A-00MJ-00MJ-XXXX

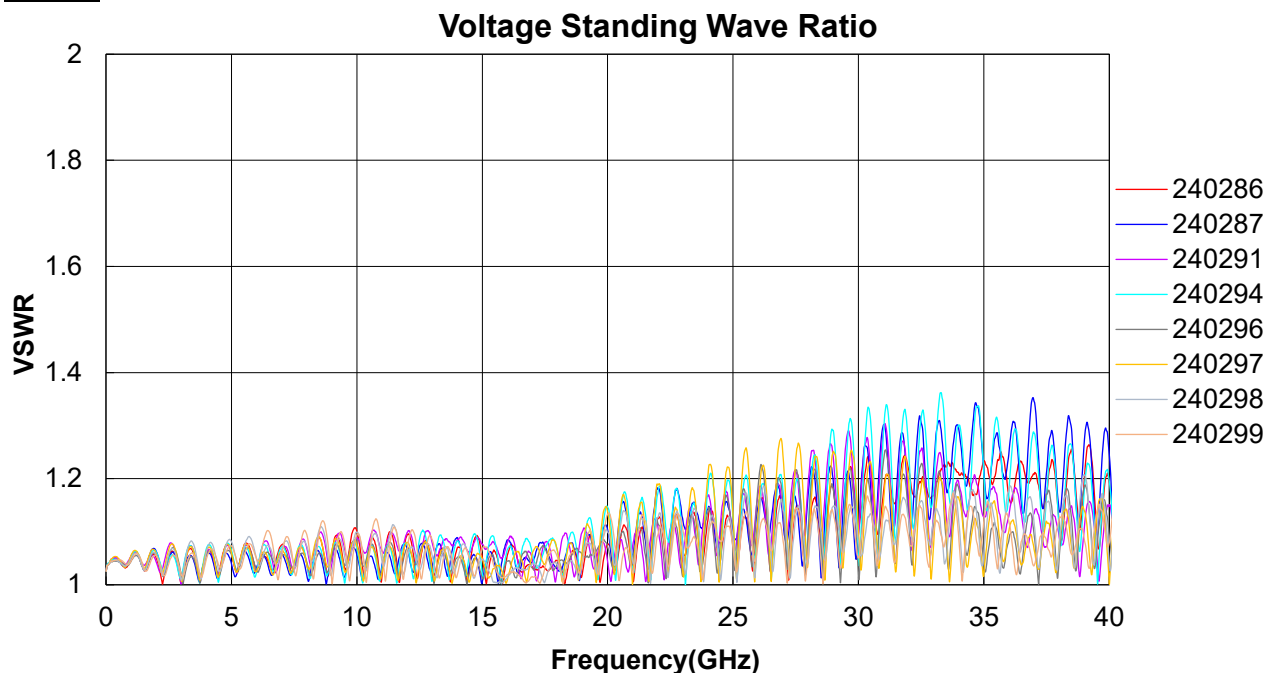
Series: RF047-A

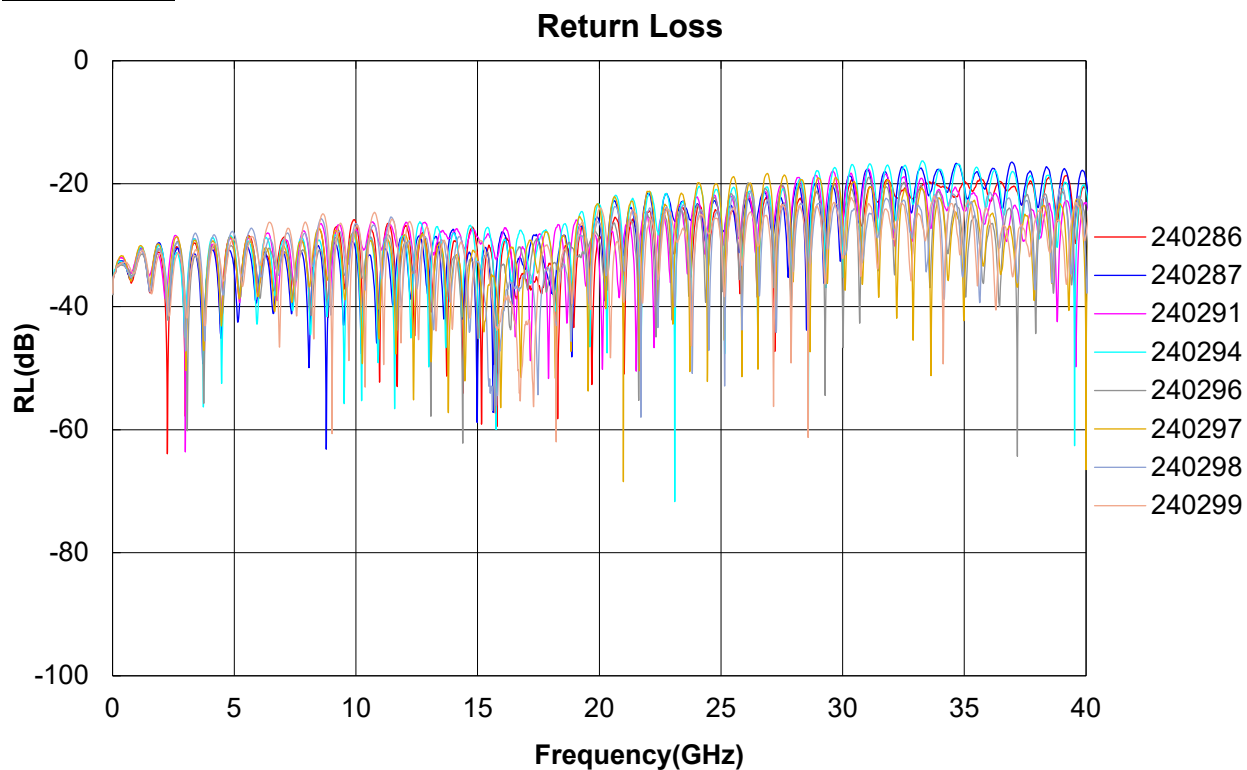
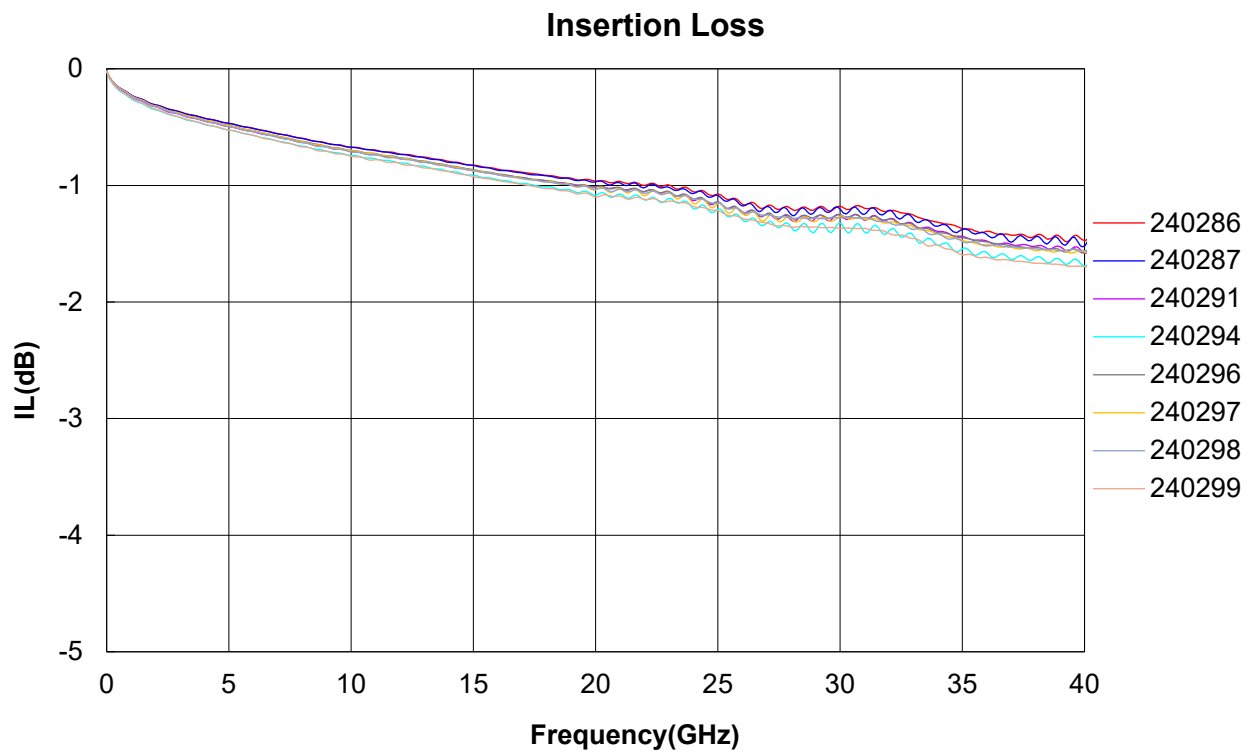
Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF047-A-00SJ-00SJ-0152

Description: RF047-A High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-26.5 (GHz)	SWR (Max) 26.5-40 (GHz)	RL (dB, max) DC-26.5 (GHz)	RL (dB, max) 26.5-40 (GHz)	IL (dB, min) DC-26.5 (GHz)	IL (dB, min) 26.5-40 (GHz)
240286	1.16 @ 26.15 GHz	1.26 @ 39.19 GHz	-22.37 @ 26.15 GHz	-18.67 @ 39.19 GHz	-1.17 @ 26.11 GHz	-1.48 @ 39.25 GHz
240287	1.18 @ 21.97 GHz	1.35 @ 39.95 GHz	-21.53 @ 21.97 GHz	-16.48 @ 36.95 GHz	-1.19 @ 26.50 GHz	-1.53 @ 39.93 GHz
240291	1.19 @ 26.10 GHz	1.30 @ 31.05 GHz	-21.39 @ 26.10 GHz	-17.59 @ 31.05 GHz	-1.24 @ 26.05 GHz	-1.58 @ 40.00 GHz
240294	1.21 @ 24.10 GHz	1.36 @ 33.29 GHz	-20.44 @ 24.10 GHz	-16.29 @ 33.29 GHz	-1.31 @ 26.11 GHz	-1.69 @ 40.00 GHz
240296	1.23 @ 26.11 GHz	1.25 @ 31.08 GHz	-19.84 @ 26.11 GHz	-18.96 @ 31.08 GHz	-1.25 @ 26.08 GHz	-1.58 @ 39.93 GHz
240297	1.26 @ 25.52 GHz	1.28 @ 26.91 GHz	-18.84 @ 25.52 GHz	-18.33 @ 26.91 GHz	-1.26 @ 26.12 GHz	-1.58 @ 39.41 GHz
240298	1.19 @ 26.22 GHz	1.21 @ 38.98 GHz	-21.38 @ 26.22 GHz	-20.54 @ 38.98 GHz	-1.24 @ 26.17 GHz	-1.56 @ 39.04 GHz
240299	1.14 @ 25.53 GHz	1.17 @ 33.76 GHz	-23.79 @ 25.53 GHz	-21.99 @ 33.76 GHz	-1.30 @ 26.50 GHz	-1.70 @ 40.00 GHz

VSWR



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

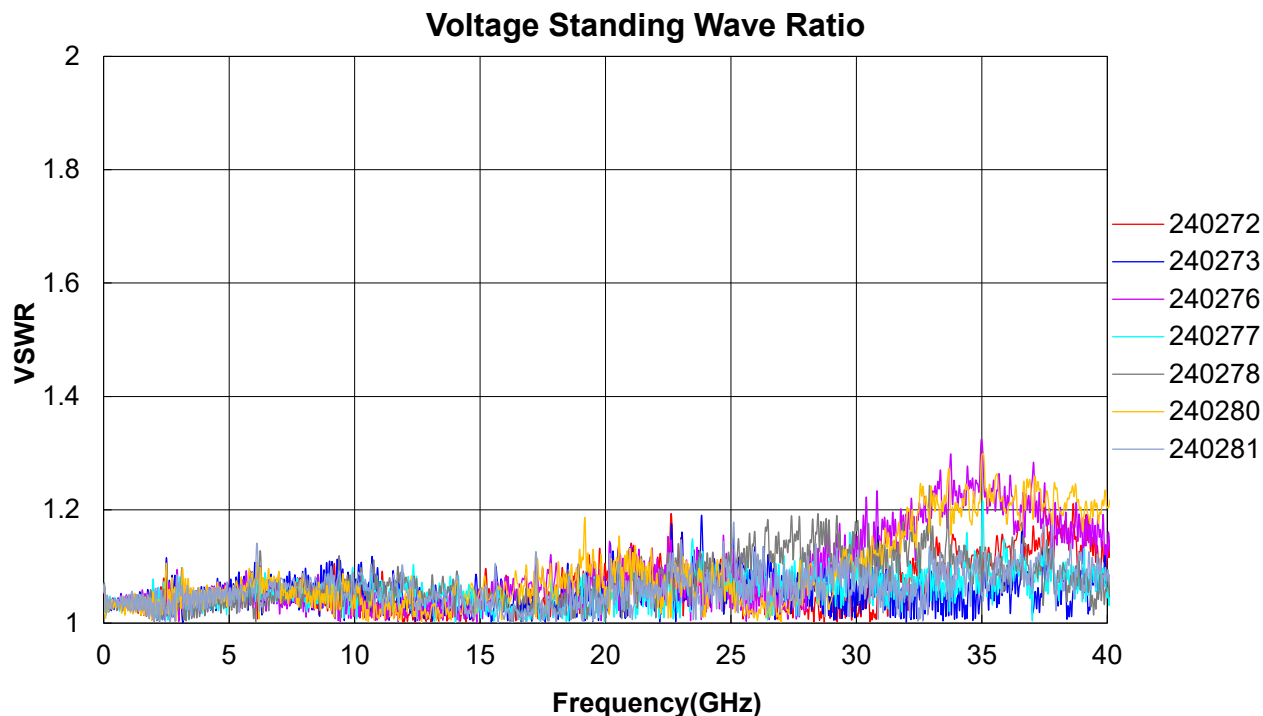
Series: RF047-A

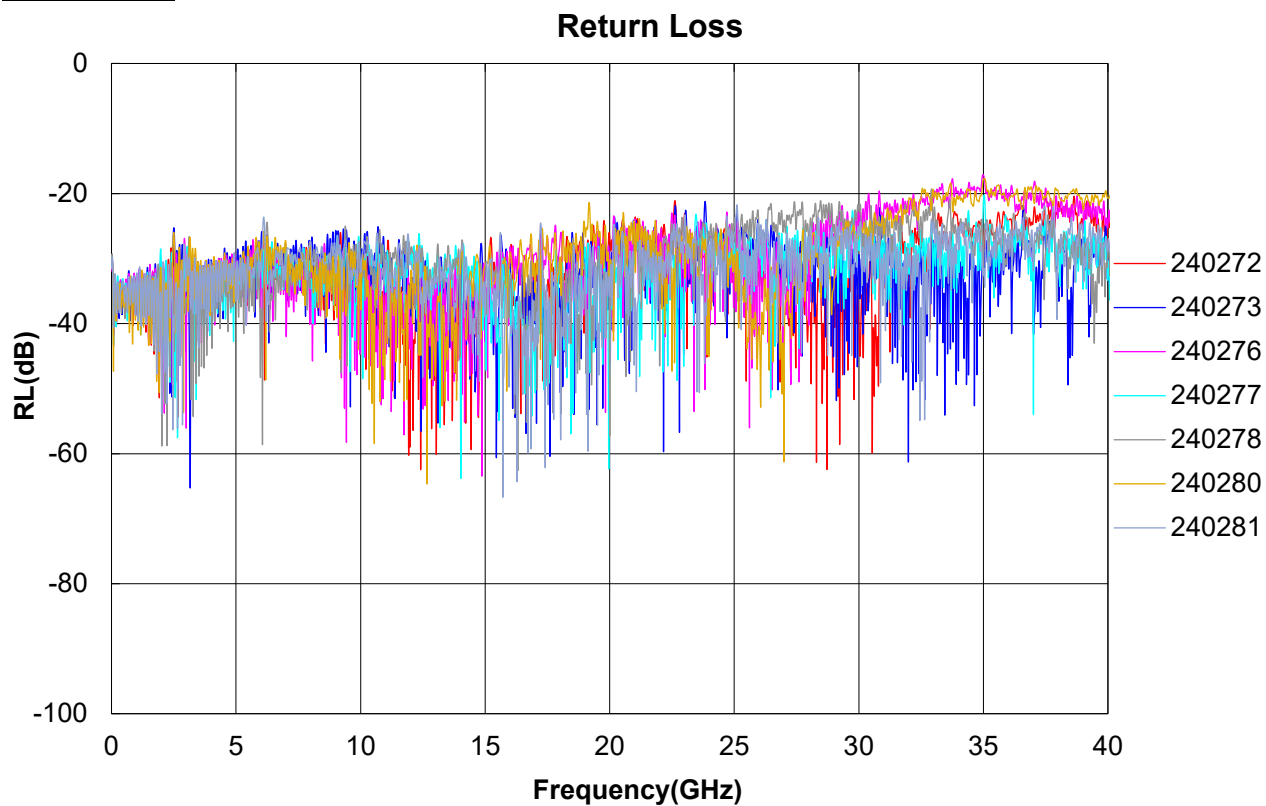
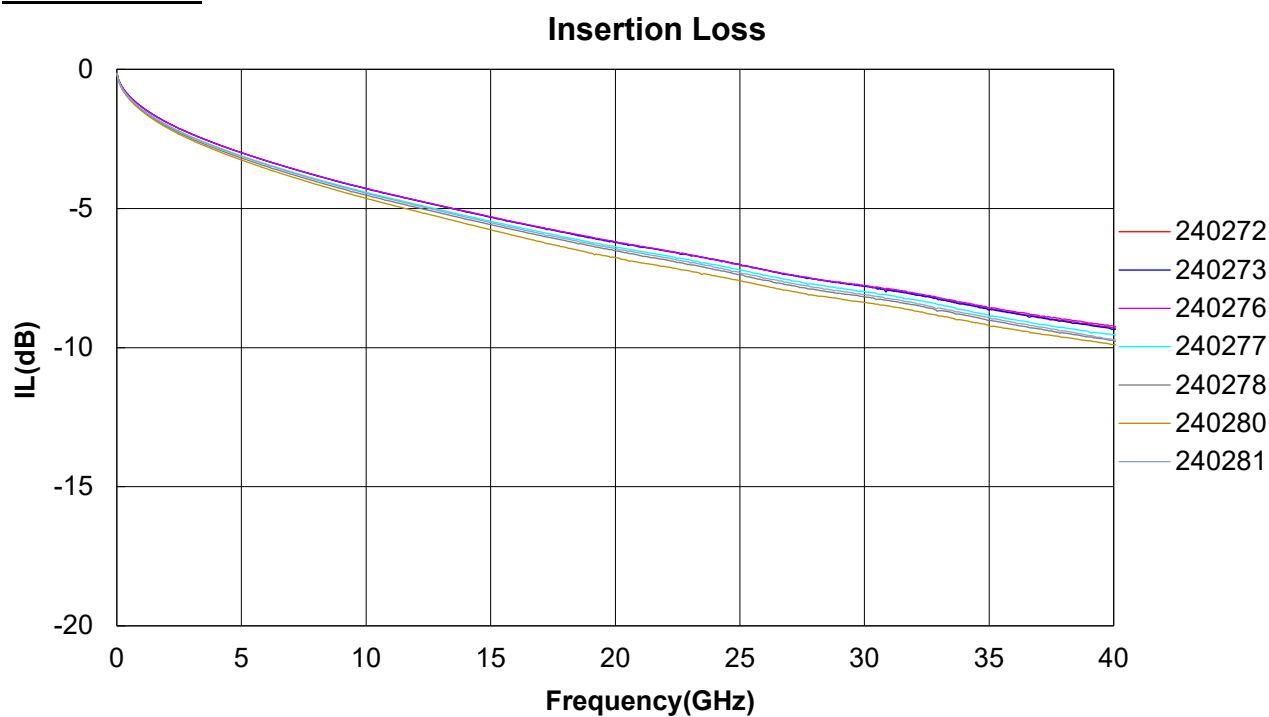
Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF047-A-00SJ-00SJ-1000

Description: RF047-A High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-26.5 (GHz)	SWR (Max) 26.5-40 (GHz)	RL (dB, max) DC-26.5 (GHz)	RL (dB, max) 26.5-40 (GHz)	IL (dB, min) DC-26.5 (GHz)	IL (dB, min) 26.5-40 (GHz)
240272	1.19 @ 22.62 GHz	1.22 @ 37.48 GHz	-21.09 @ 22.62 GHz	-20.20 @ 37.48 GHz	-7.30 @ 26.50 GHz	-9.30 @ 40.00 GHz
240273	1.19 @ 23.83 GHz	1.18 @ 36.60 GHz	-21.21 @ 23.83 GHz	-21.76 @ 36.60 GHz	-7.30 @ 26.50 GHz	-9.35 @ 39.94 GHz
240276	1.16 @ 24.70 GHz	1.32 @ 34.98 GHz	-22.85 @ 24.70 GHz	-17.10 @ 34.98 GHz	-7.29 @ 26.37 GHz	-9.22 @ 39.85 GHz
240277	1.15 @ 23.46 GHz	1.22 @ 35.03 GHz	-23.19 @ 23.46 GHz	-20.23 @ 35.03 GHz	-7.48 @ 26.50 GHz	-9.53 @ 39.98 GHz
240278	1.18 @ 26.47 GHz	1.24 @ 32.91 GHz	-21.54 @ 26.47 GHz	-19.31 @ 32.91 GHz	-7.68 @ 26.47 GHz	-9.75 @ 40.00 GHz
240280	1.19 @ 19.17 GHz	1.30 @ 35.05 GHz	-21.38 @ 19.17 GHz	-17.72 @ 35.05 GHz	-7.89 @ 26.50 GHz	-9.89 @ 39.94 GHz
240281	1.18 @ 25.11 GHz	1.18 @ 37.46 GHz	-21.73 @ 25.11 GHz	-21.88 @ 37.46 GHz	-7.58 @ 26.50 GHz	-9.72 @ 40.00 GHz

VSWR



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

Series: RF047-A

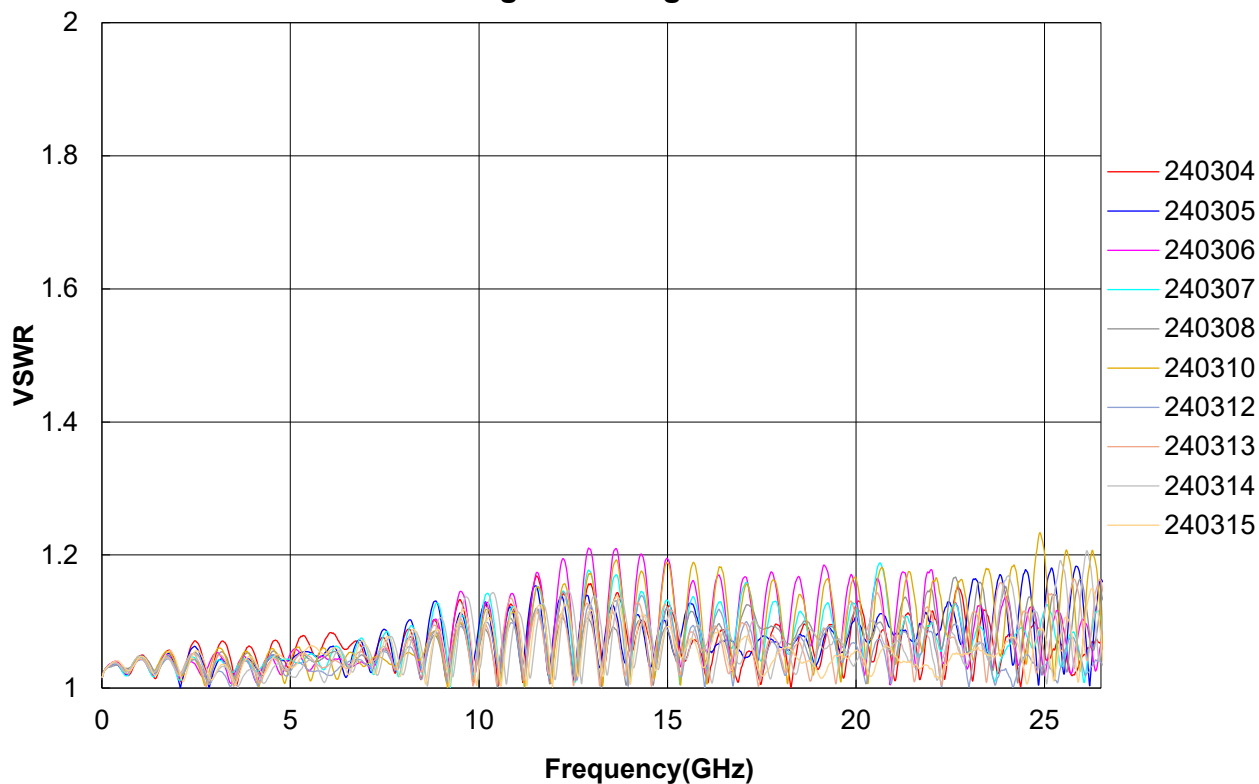
Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF047-A-00MJ-00MJ-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
240304	1.17@11.53 GHz	-22.19@11.53 GHz	-1.31@26.46 GHz
240305	1.18@25.84 GHz	-21.52@25.84 GHz	-1.31@26.45 GHz
240306	1.21@12.91 GHz	-20.43@12.91 GHz	-1.27@26.48 GHz
240307	1.19@20.64 GHz	-21.31@20.64 GHz	-1.24@26.35 GHz
240308	1.17@22.64 GHz	-22.27@22.64 GHz	-1.30@26.50 GHz
240310	1.23@24.88 GHz	-19.61@24.88 GHz	-1.31@26.39 GHz
240312	1.14@12.24 GHz	-23.44@12.24 GHz	-1.23@26.44 GHz
240313	1.16@25.78 GHz	-22.40@25.78 GHz	-1.27@26.45 GHz
240314	1.21@26.13 GHz	-20.58@26.13 GHz	-1.25@26.21 GHz
240315	1.15@26.25GHz	-23.17@26.25 GHz	-1.24@26.34 GHz

VSWR

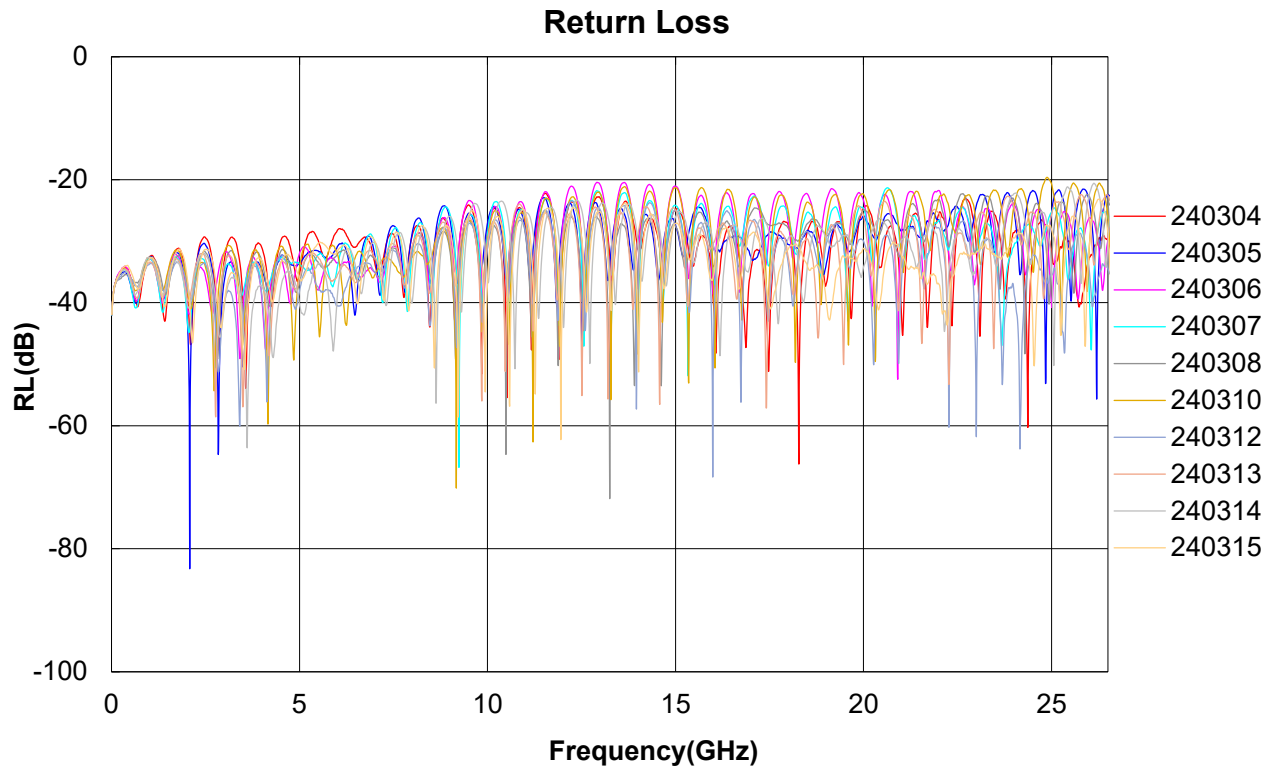
Voltage Standing Wave Ratio



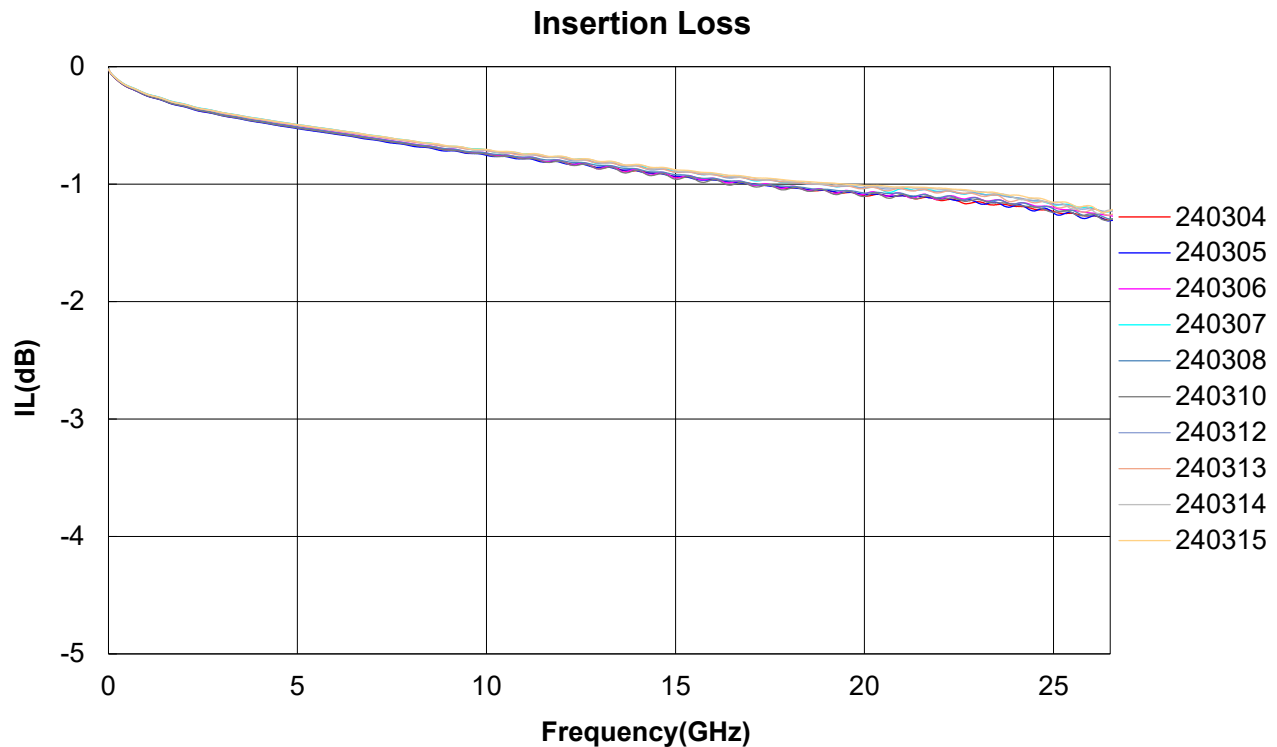
Series: RF047-A

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

Return Loss



Insertion Loss



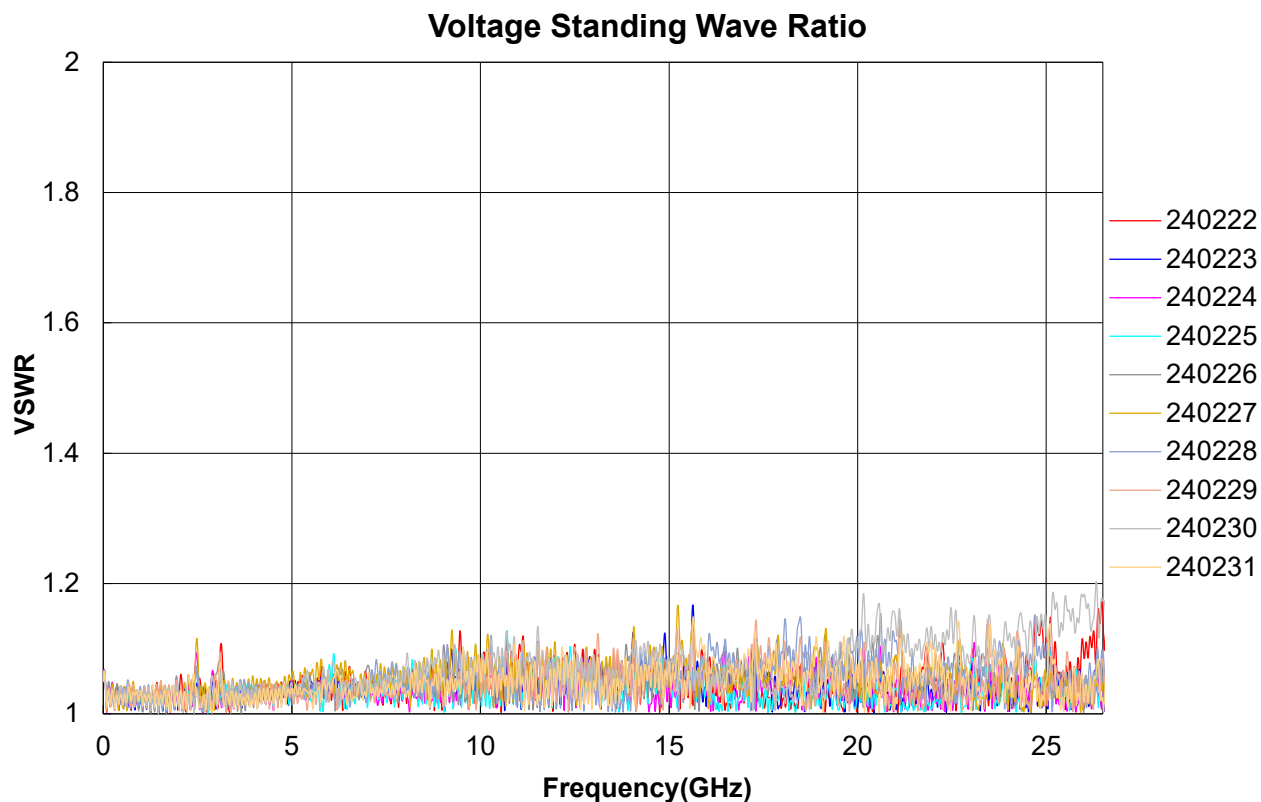
Series: RF047-A

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

Results: RF047-A-00MJ-00MJ-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
240222	1.17@26.47 GHz	-22.01@26.47 GHz	-8.15@26.49 GHz
240223	1.17@15.63 GHz	-22.25@15.63 GHz	-8.16@26.34 GHz
240224	1.11@11.53 GHz	-25.52@11.53 GHz	-8.13@26.50 GHz
240225	1.13@10.70 GHz	-24.43@10.70 GHz	-7.88@26.50 GHz
240226	1.12@19.13 GHz	-24.86@19.13 GHz	-8.11@26.50 GHz
240227	1.17@15.23 GHz	-22.27@15.23 GHz	-7.66@26.41 GHz
240228	1.15@20.61 GHz	-22.92@20.61 GHz	-8.21@26.45 GHz
240229	1.15@21.12 GHz	-23.28@21.12 GHz	-7.80@26.50 GHz
240230	1.20@26.33 GHz	-20.70@26.33 GHz	-8.32@26.46 GHz
240231	1.15@15.64 GHz	-23.20@15.64 GHz	-7.94@26.41 GHz

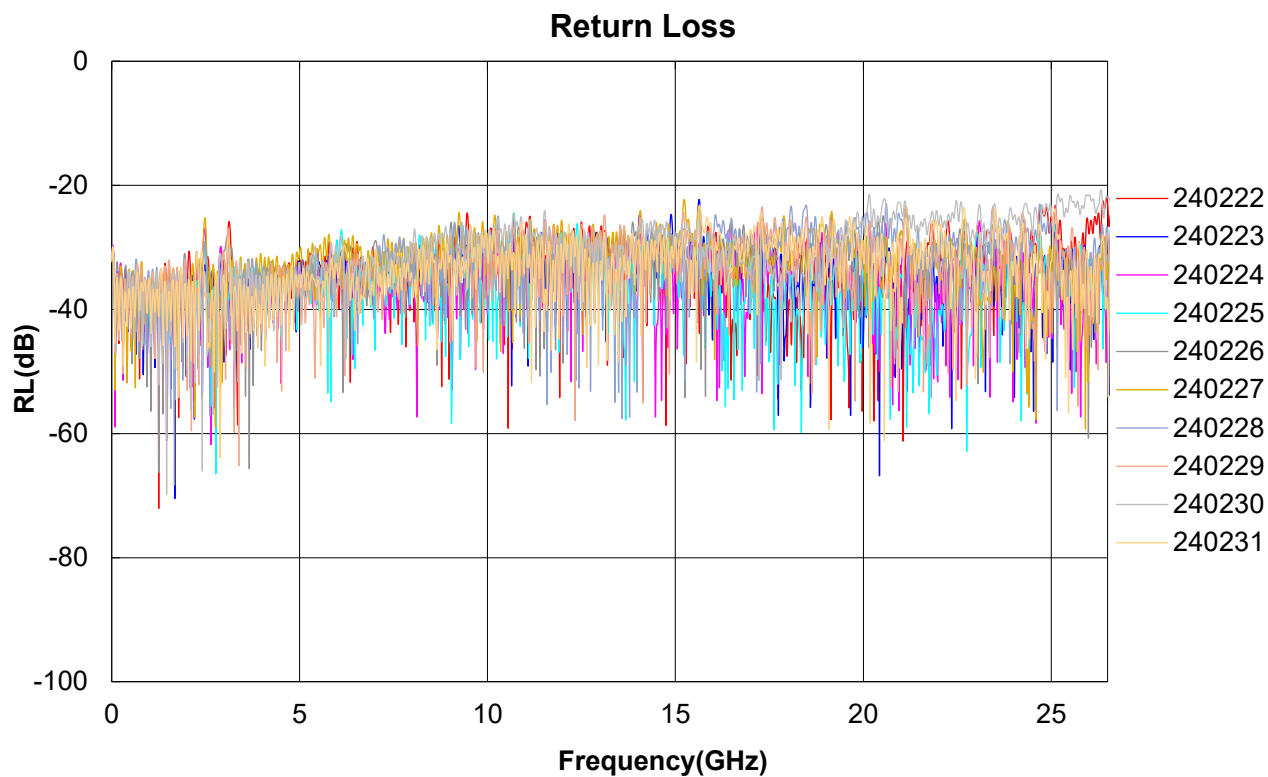
VSWR



Series: RF047-A

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

Return Loss



Insertion Loss

