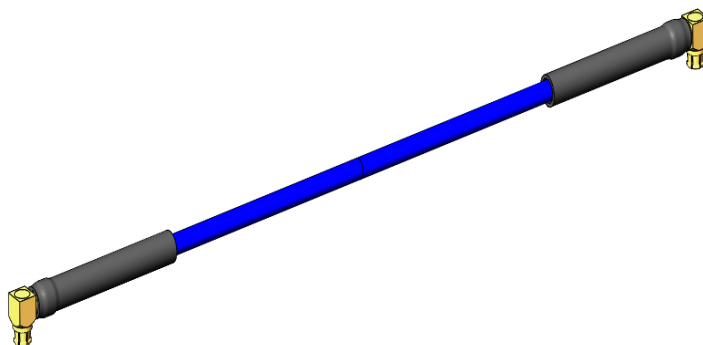




RF Characterization Report

RF047-A-M3RJ-M3RJ-XXXX



Test Date: Jun 2026

Description:
50 Ohm .047" RF Millimeter Wave Cable Assembly,
SMP3 Jack End Option

Series: RF047-A**Description:** 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End Option

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Series: RF047-A

Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End Option

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF047-A cable assembly with right-angle SMP3 jack 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	20 GHz
Points	2000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

The N5227B was calibrated using the Keysight ECAL N4694A kit.

Calibration Kit	Keysight ECAL N4694A
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Adapter Use:

1.0 mm to 1.85 mm adapter (Samtec PRFBA-100-P-185-J-S) and 1.0 mm to SMP3 adapter (Samtec PRFBA-SMP3-PF-100-J-S-1) were used for the measurement. The adapter effects were removed from the measurement using the PNA's Fixture Removal method.

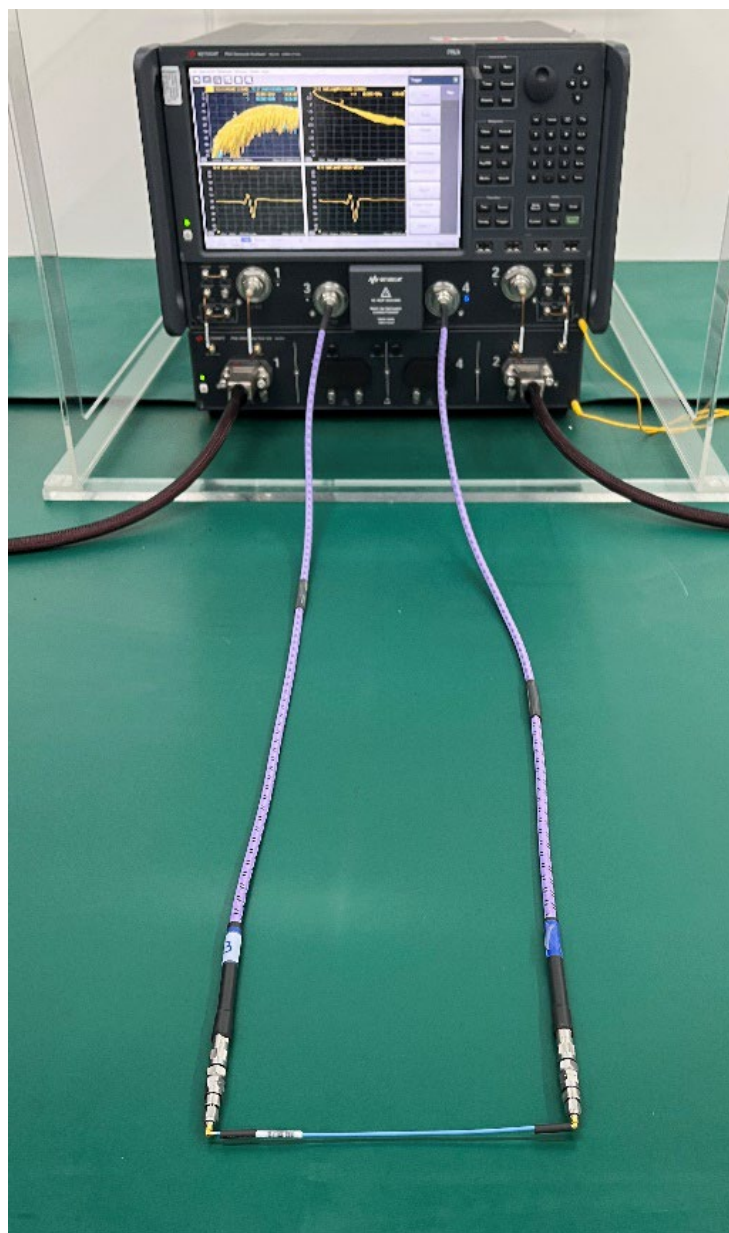
Series: RF047-A

Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End Option

RF047-A-M3RJ-M3RJ-XXXX Test Definition

Part Number	End 1	End 2
RF047-A-M3RJ-M3RJ-0152	SMP3 Jack	SMP3 Jack
RF047-A-M3RJ-M3RJ-1000	SMP3 Jack	SMP3 Jack

Cable Under Test:



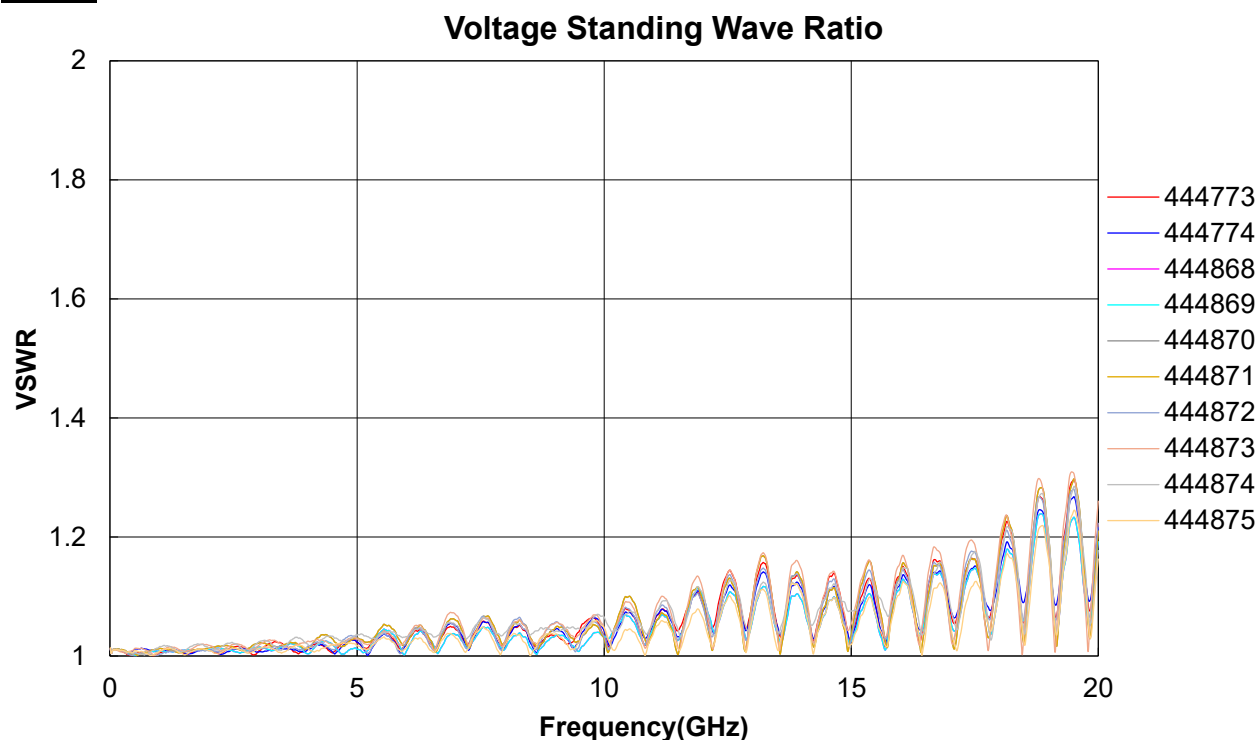
Series: RF047-A

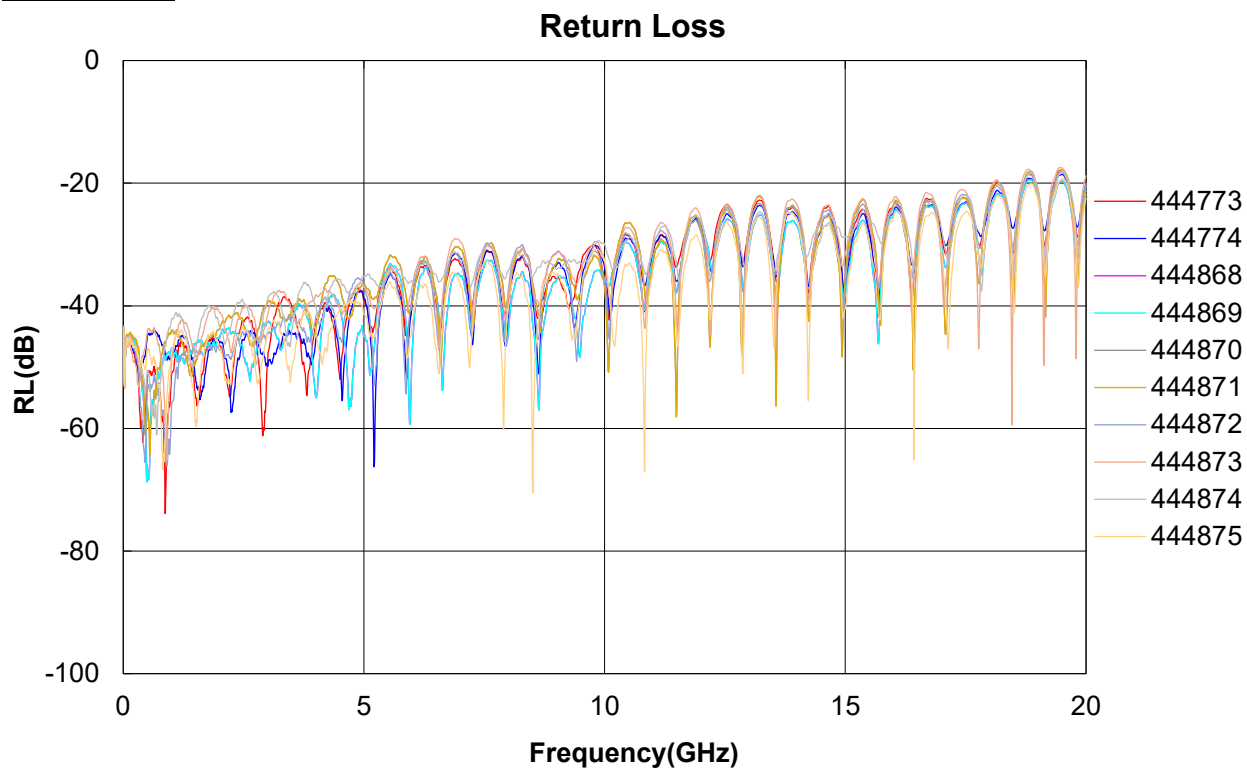
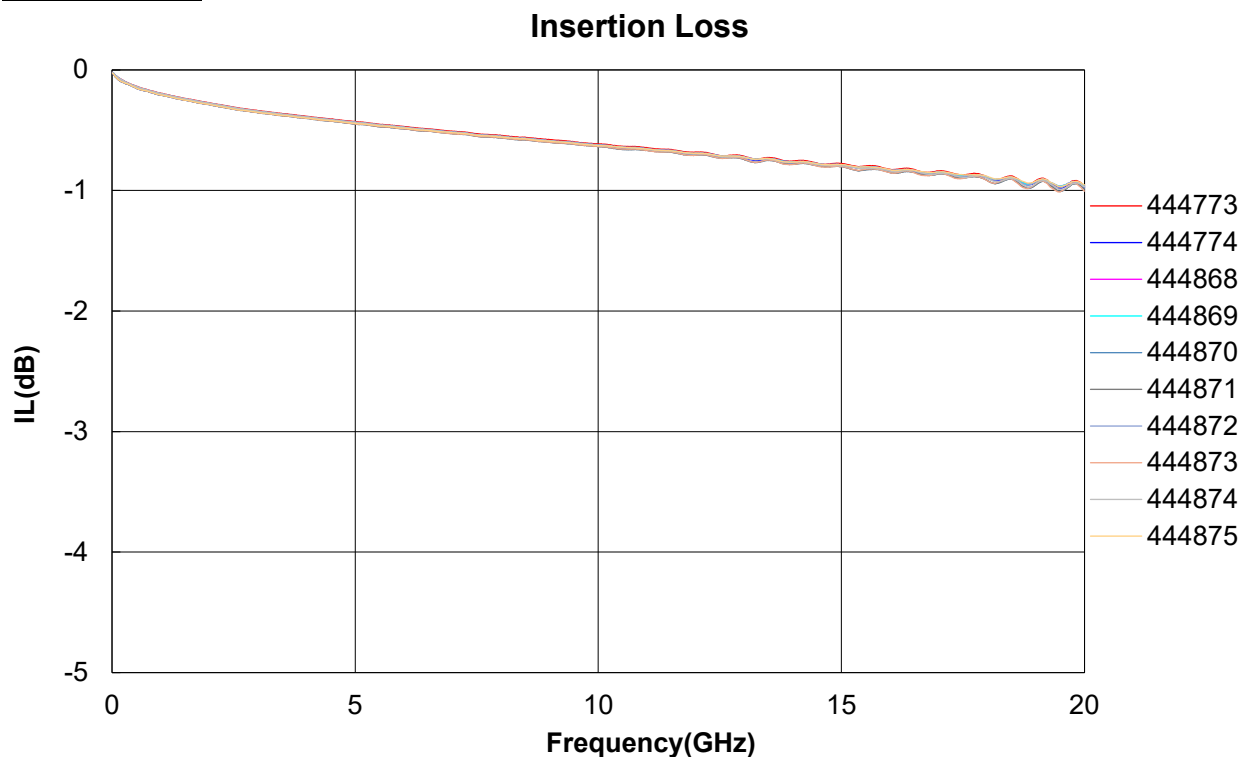
Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End Option

Results: RF047-A-M3RJ-M3RJ-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
444773	1.30 @ 19.51 GHz	-17.77 @ 19.51 GHz	-0.98 @ 19.49 GHz
444774	1.27 @ 19.51 GHz	-18.56 @ 19.51 GHz	-0.98 @ 19.49 GHz
444868	1.24 @ 18.84 GHz	-19.44 @ 18.84 GHz	-0.96 @ 19.50 GHz
444869	1.26 @ 19.51 GHz	-18.79 @ 19.51 GHz	-0.99 @ 19.49 GHz
444870	1.30 @ 19.51 GHz	-17.75 @ 19.51 GHz	-1.01 @ 19.50 GHz
444871	1.36 @ 19.46 GHz	-16.37 @ 19.46 GHz	-1.03 @ 19.46 GHz
444872	1.28 @ 19.50 GHz	-18.20 @ 19.50 GHz	-0.98 @ 19.49 GHz
444873	1.31 @ 19.46 GHz	-17.46 @ 19.46 GHz	-1.01 @ 19.46 GHz
444874	1.29 @ 19.51 GHz	-18.08 @ 19.51 GHz	-0.99 @ 19.50 GHz
444875	1.24 @ 19.51 GHz	-19.24 @ 19.51 GHz	-0.97 @ 19.50 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End OptionReturn LossInsertion Loss

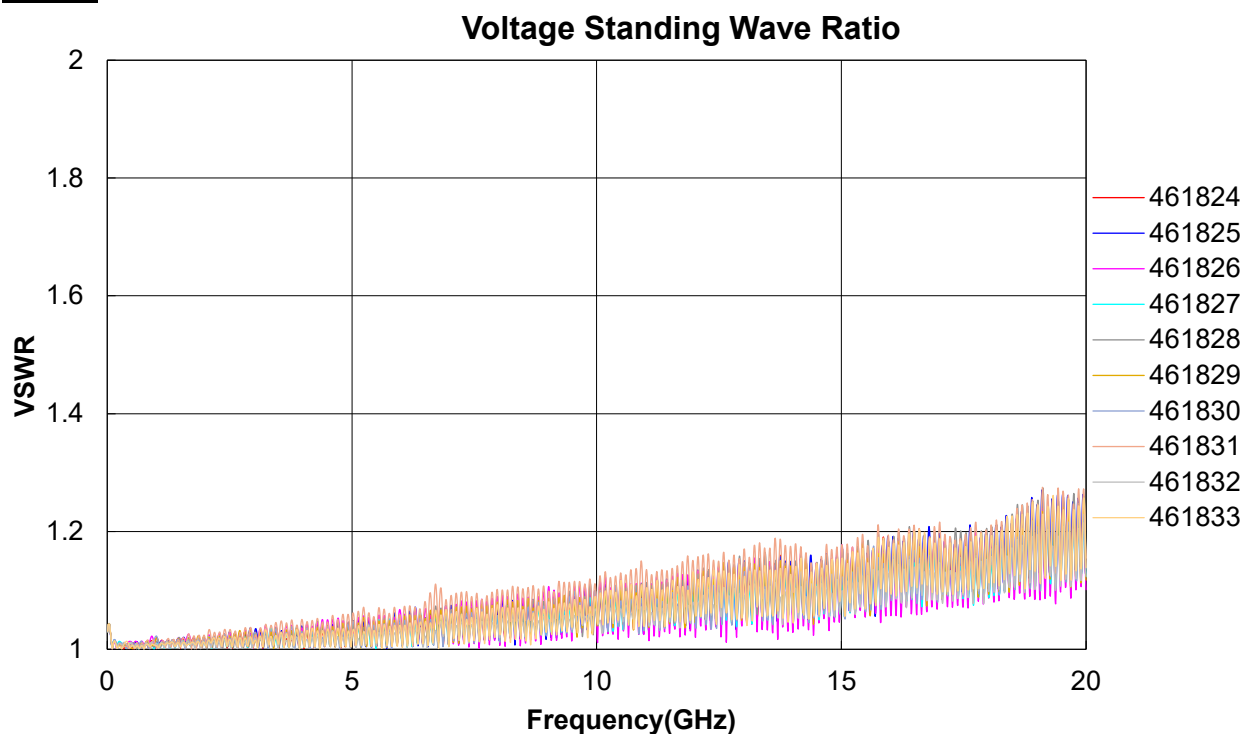
Series: RF047-A

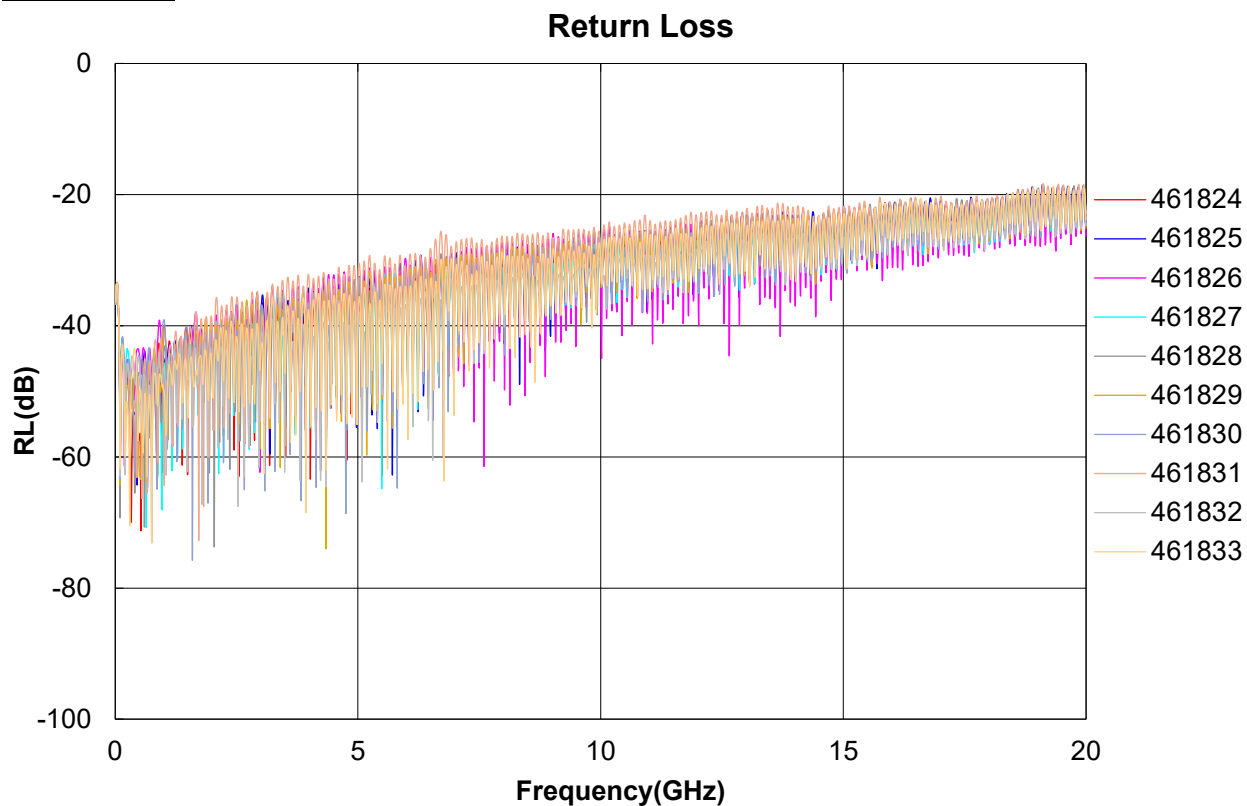
Description: 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End Option

Results: RF047-A-M3RJ-M3RJ-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	SWR (Max)	RL (dB, max)	IL (dB, min)
461824	1.25 @ 19.53 GHz	-19.06 @ 19.53 GHz	-5.62 @ 19.95 GHz
461825	1.27 @ 19.10 GHz	-18.47 @ 19.10 GHz	-5.68 @ 19.94 GHz
461826	1.25 @ 19.64 GHz	-19.23 @ 19.64 GHz	-5.69 @ 19.95 GHz
461827	1.23 @ 19.64 GHz	-19.88 @ 19.64 GHz	-5.63 @ 19.96 GHz
461828	1.27 @ 19.12 GHz	-18.38 @ 19.12 GHz	-5.71 @ 19.96 GHz
461829	1.24 @ 19.42 GHz	-19.28 @ 19.42 GHz	-5.67 @ 19.95 GHz
461830	1.24 @ 19.86 GHz	-19.52 @ 19.86 GHz	-5.66 @ 19.97 GHz
461831	1.28 @ 19.11 GHz	-18.35 @ 19.11 GHz	-5.66 @ 19.95 GHz
461832	1.21 @ 19.95 GHz	-20.27 @ 19.95 GHz	-5.62 @ 19.95 GHz
461833	1.26 @ 19.33 GHz	-18.75 @ 19.33 GHz	-5.68 @ 19.96 GHz

VSWR



Series: RF047-A**Description:** 50 Ohm .047" RF Millimeter Wave Cable Assembly, SMP3 Jack End OptionReturn LossInsertion Loss