



RF Characterization Report

RF086-00SJ-00SJ-XXXX



RF086-00MJ-00MJ-XXXX



Test Date: Sep 2023

Description:
50 Ohm .086" RF Millimeter Wave Cable Assembly,
SMP Jack End Option

Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

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Series: RF086**Description:** 50 Ohm .086" 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 RF086 cable assembly with SMP jack connector end options.

Instrument Setup & Test Accessories for RF086-00SJ-00SJ-XXXX measurement:

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)

Instrument Setup & Test Accessories for RF086-00MJ-00MJ-XXXX measurement:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	26.5 GHz
Points	2650
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.

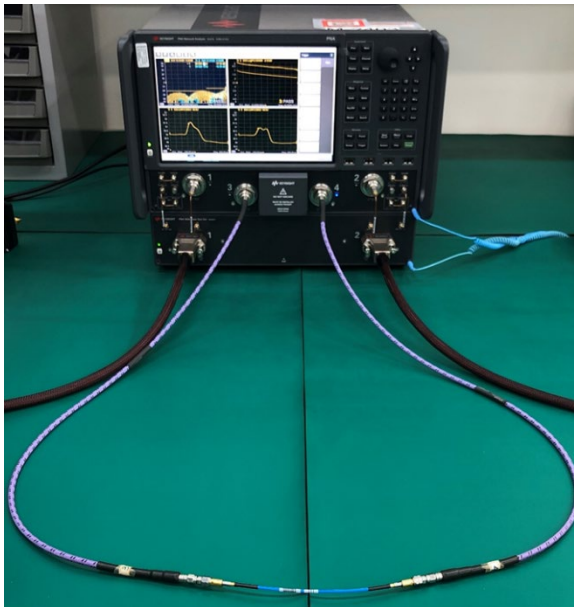
Series: RF086

Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

RF086-00XX-00XX-XXXX Test Definition

Part Number	End 1	End 2
RF086-00SJ-00SJ-XXXX	SMP Jack	SMP Jack
RF086-00MJ-00MJ-XXXX	SMP R/A Jack	SMP R/A Jack

Cable Under Test:



RF086-00SJ-00SJ-XXXX



RF086-00MJ-00MJ-XXXX

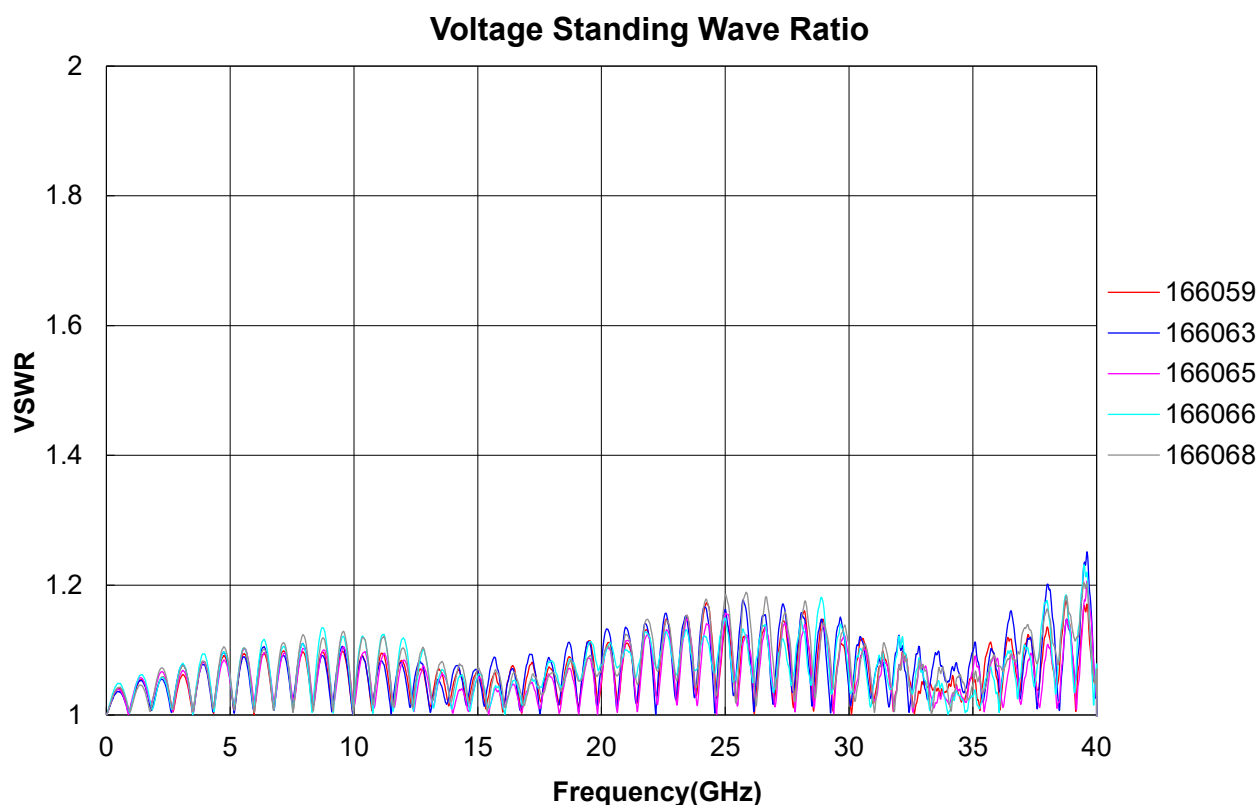
Series: RF086

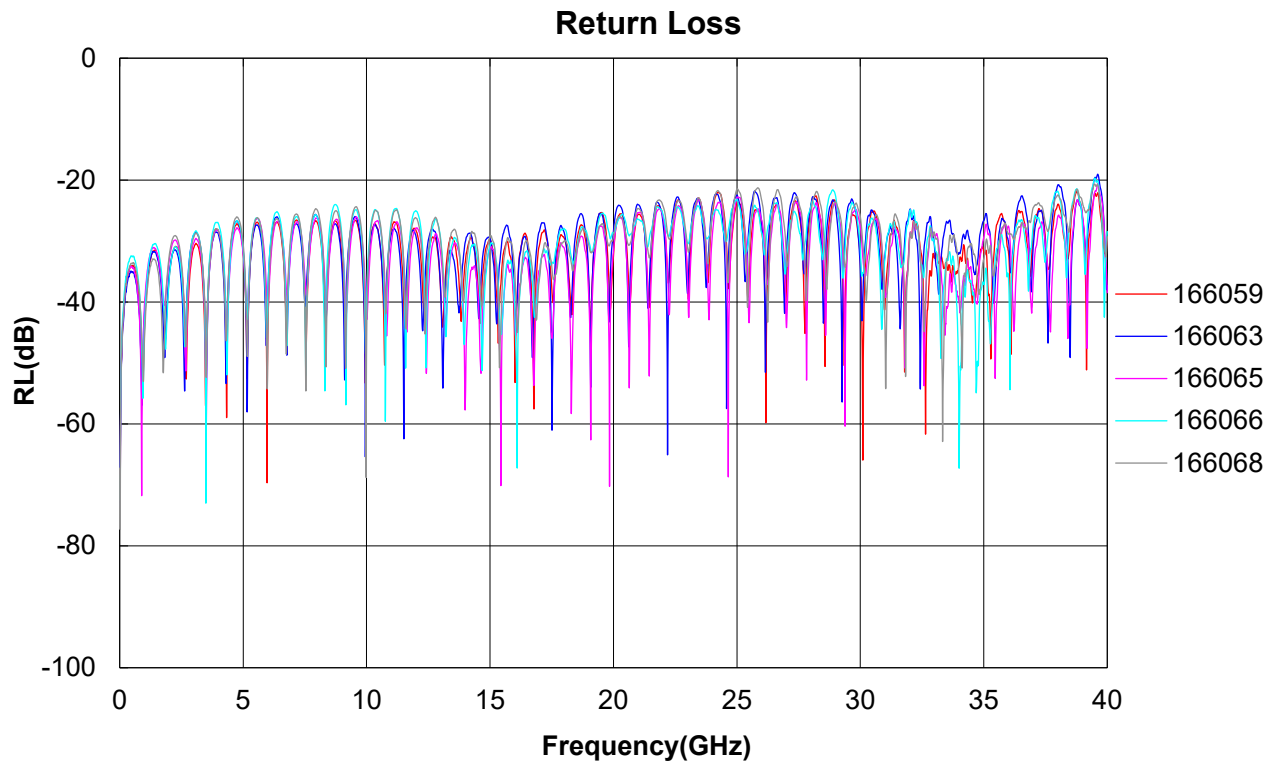
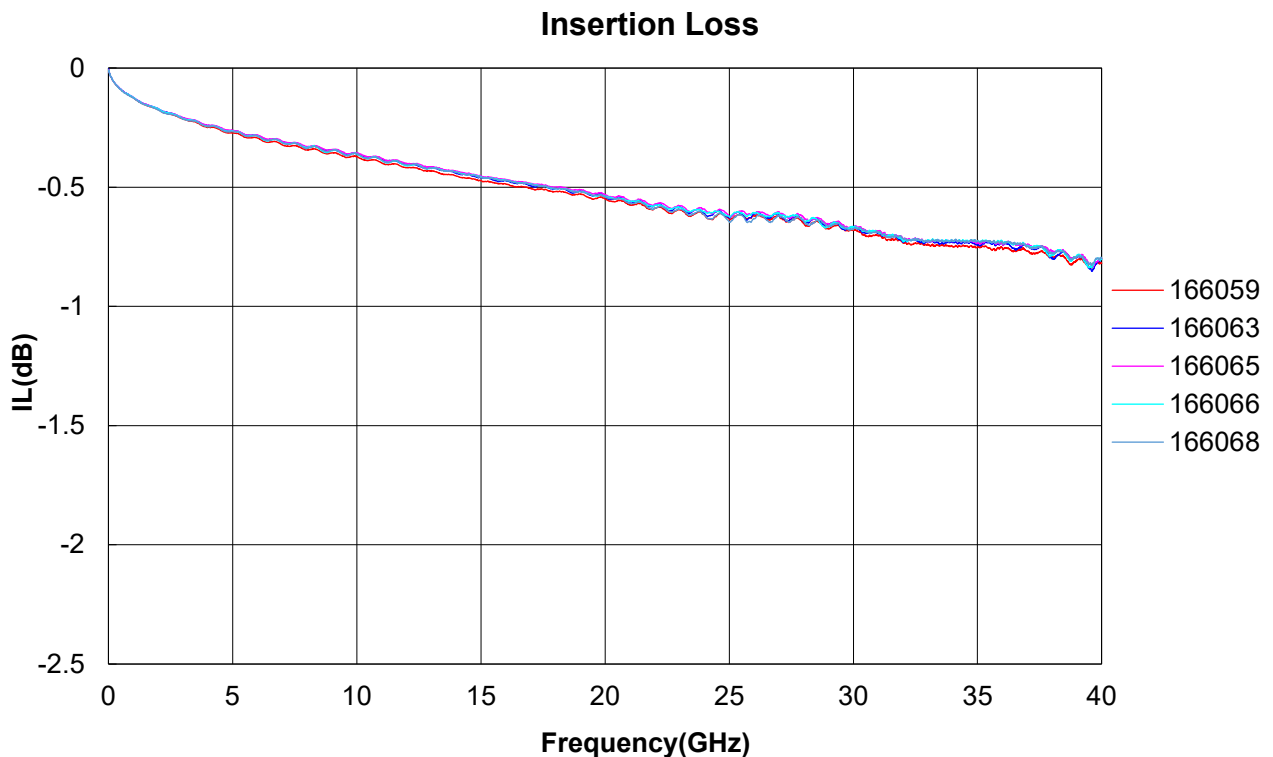
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF086-00SJ-00SJ-0152

Description: RF086 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)
166059	1.17 @ 24.24 GHz	1.18 @ 38.77 GHz	-21.98 @ 24.24 GHz	-21.83 @ 38.77 GHz	-0.64 @ 25.03 GHz	-0.84 @ 39.61 GHz
166053	1.18 @ 25.72 GHz	1.25 @ 39.61 GHz	-21.78 @ 25.72 GHz	-19.04 @ 39.61 GHz	-0.64 @ 25.71 GHz	-0.85 @ 39.61 GHz
166065	1.16 @ 25.02 GHz	1.21 @ 39.62 GHz	-22.77 @ 25.02 GHz	-20.57 @ 39.62 GHz	-0.63 @ 25.03 GHz	-0.83 @ 39.61 GHz
166066	1.15 @ 25.00 GHz	1.23 @ 39.49 GHz	-23.15 @ 25.00 GHz	-19.68 @ 39.49 GHz	-0.63 @ 25.02 GHz	-0.84 @ 39.47 GHz
166068	1.19 @ 25.84 GHz	1.20 @ 39.47 GHz	-21.27 @ 25.84 GHz	-20.66 @ 39.47 GHz	-0.65 @ 25.74 GHz	-0.83 @ 39.61 GHz

VSWR



Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option**Return Loss****Insertion Loss**

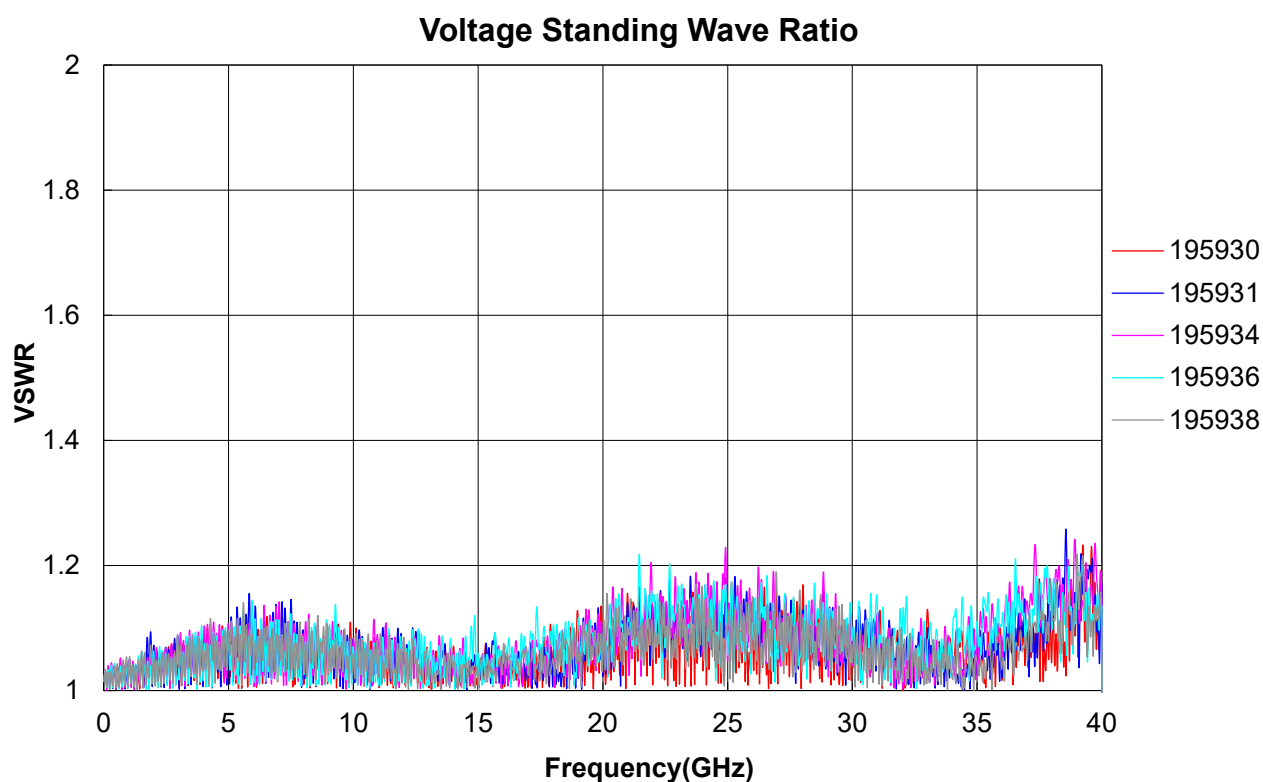
Series: RF086

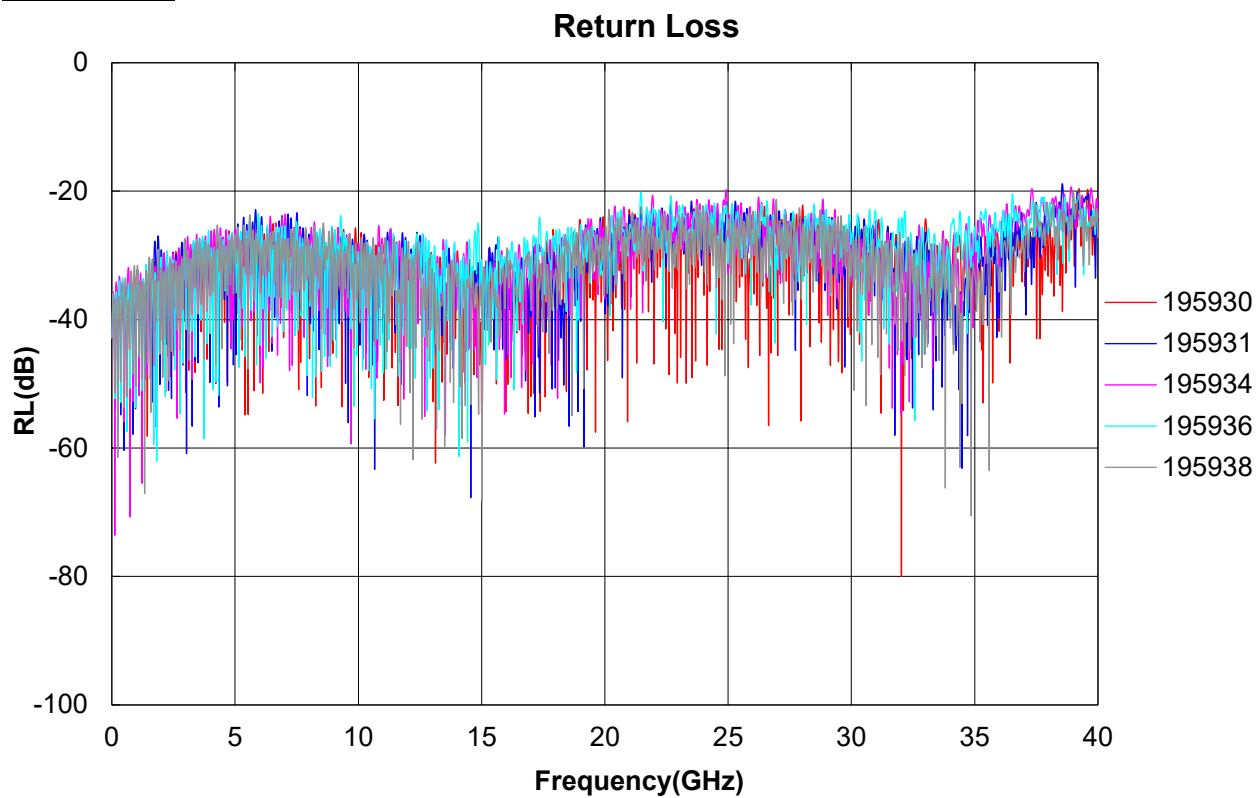
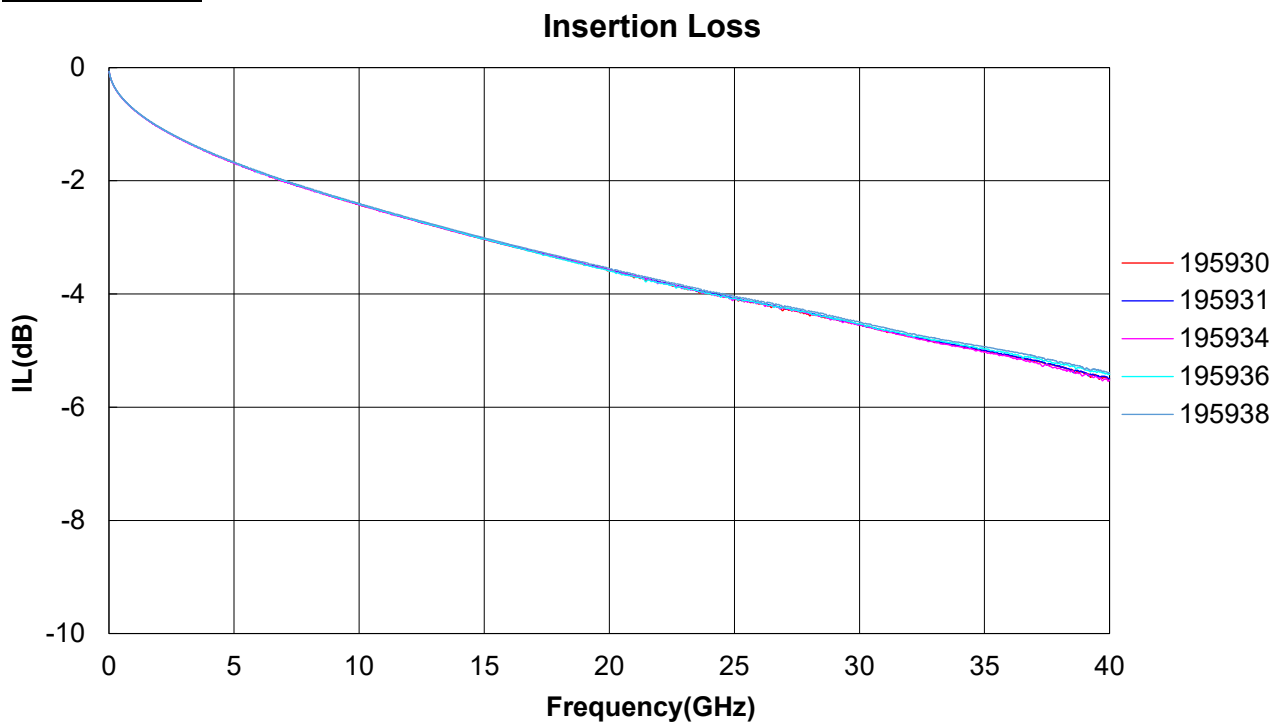
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF086-00SJ-00SJ-1000

Description: RF086 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)
195930	1.17 @ 25.16 GHz	1.23 @ 39.23 GHz	-21.96 @ 25.16 GHz	-19.65 @ 39.23 GHz	-4.24 @ 26.48 GHz	-5.53 @ 39.95 GHz
195931	1.18 @ 23.51 GHz	1.26 @ 38.56 GHz	-21.54 @ 23.51 GHz	-18.84 @ 38.56 GHz	-4.20 @ 26.49 GHz	-5.50 @ 39.97 GHz
195934	1.23 @ 24.92 GHz	1.24 @ 38.91 GHz	-19.77 @ 24.92 GHz	-19.34 @ 38.91 GHz	-4.22 @ 26.23 GHz	-5.54 @ 39.94 GHz
195936	1.22 @ 21.46 GHz	1.21 @ 36.53 GHz	-20.15 @ 21.46 GHz	-20.42 @ 36.53 GHz	-4.21 @ 26.35 GHz	-5.42 @ 39.94 GHz
195938	1.17 @ 23.73 GHz	1.22 @ 39.01 GHz	-22.12 @ 23.73 GHz	-20.15 @ 39.01 GHz	-4.16 @ 26.24 GHz	-5.40 @ 39.94 GHz

VSWR



Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End OptionReturn LossInsertion Loss

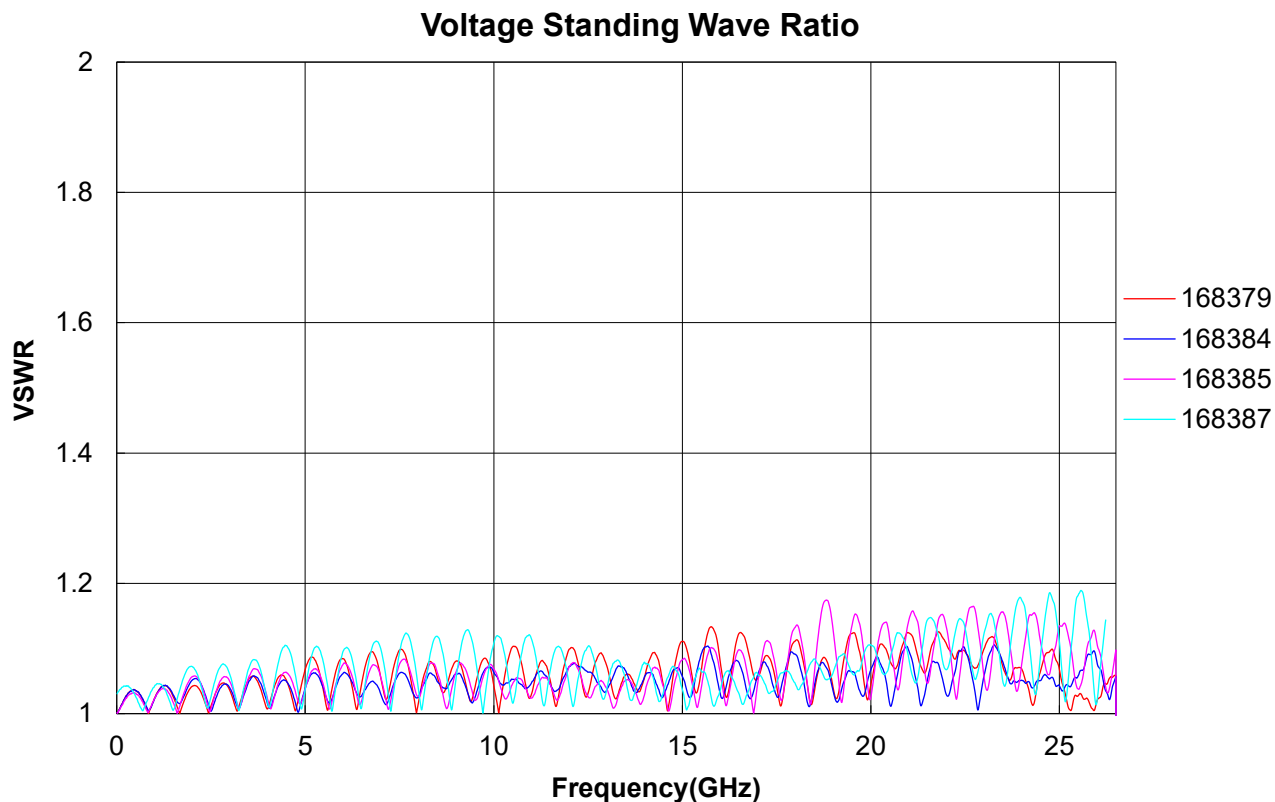
Series: RF086

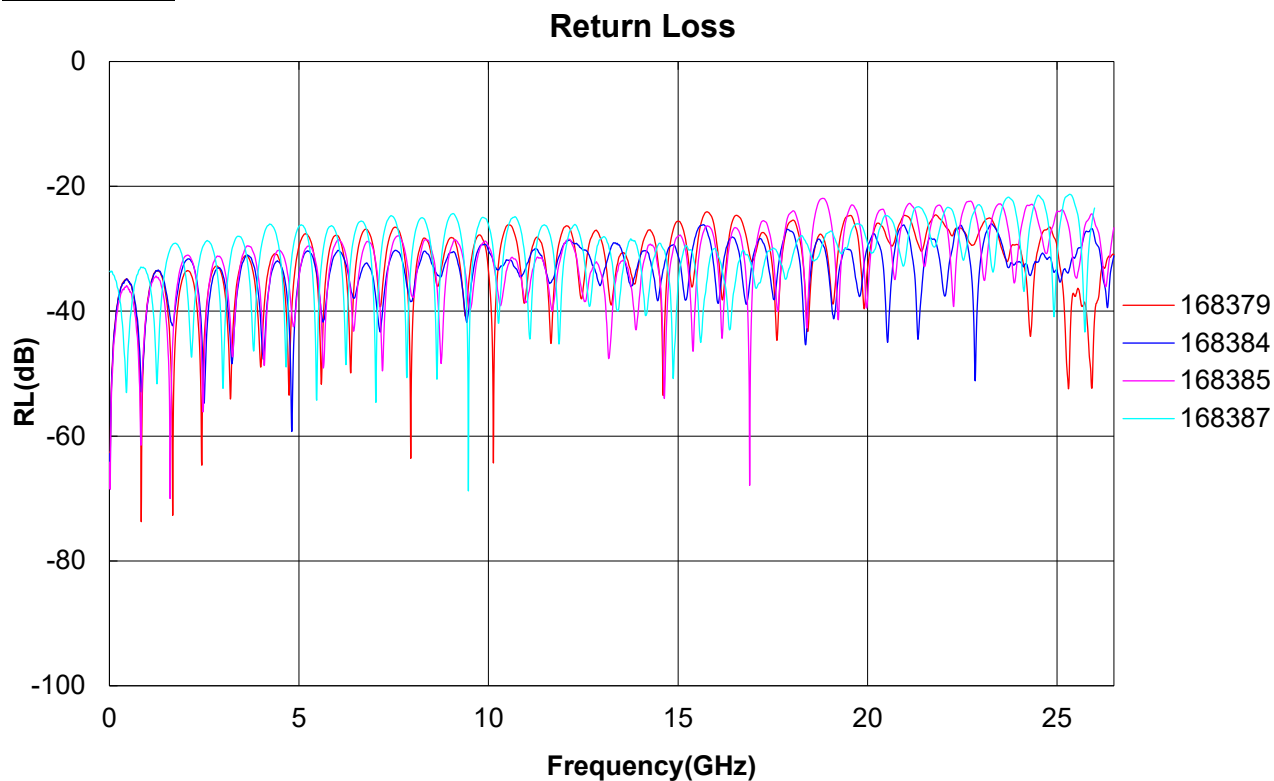
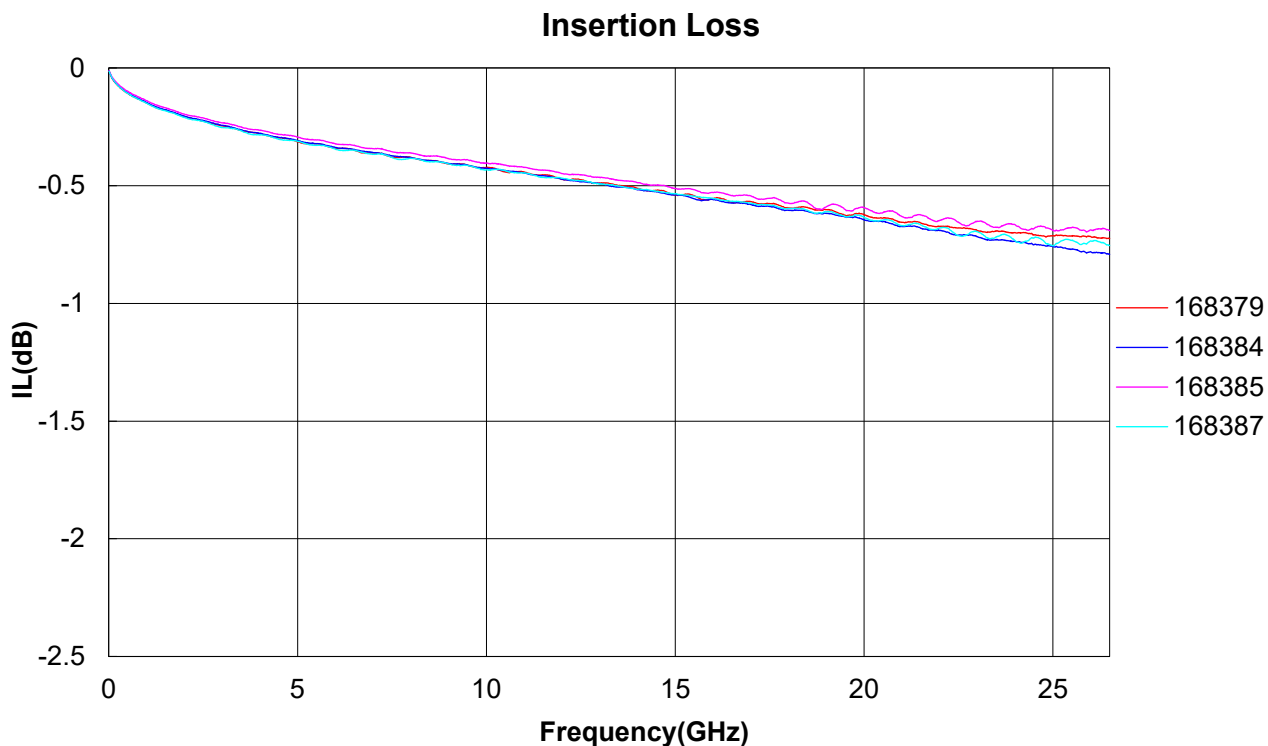
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF086-00MJ-00MJ-0152

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
168379	1.13@15.76 GHz	-24.07@15.76 GHz	-0.73@26.50 GHz
168384	1.11@23.27 GHz	-25.98@23.27 GHz	-0.79@26.50 GHz
168385	1.17@18.82 GHz	-21.91@18.82 GHz	-0.70@25.89 GHz
168387	1.18@24.14 GHz	-21.50@24.14 GHz	-0.76@25.02 GHz

VSWR



Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End OptionReturn LossInsertion Loss

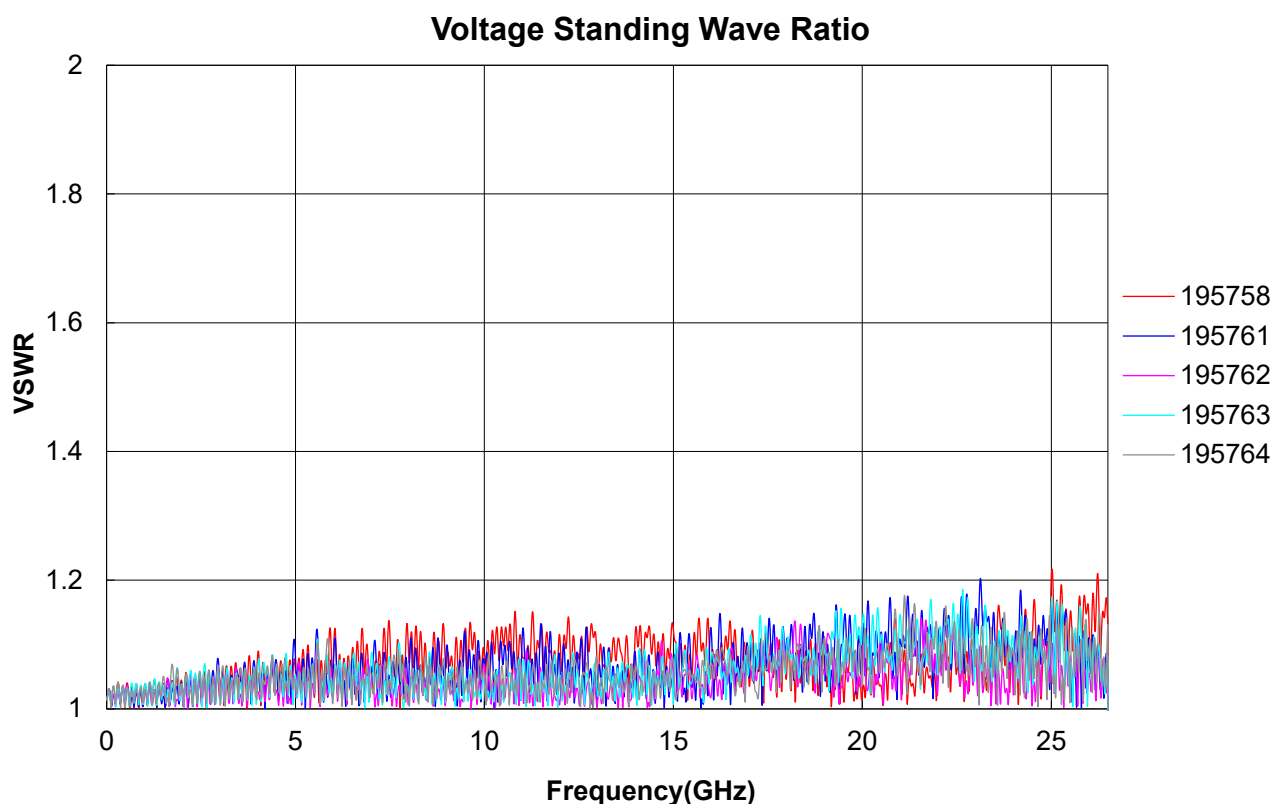
Series: RF086

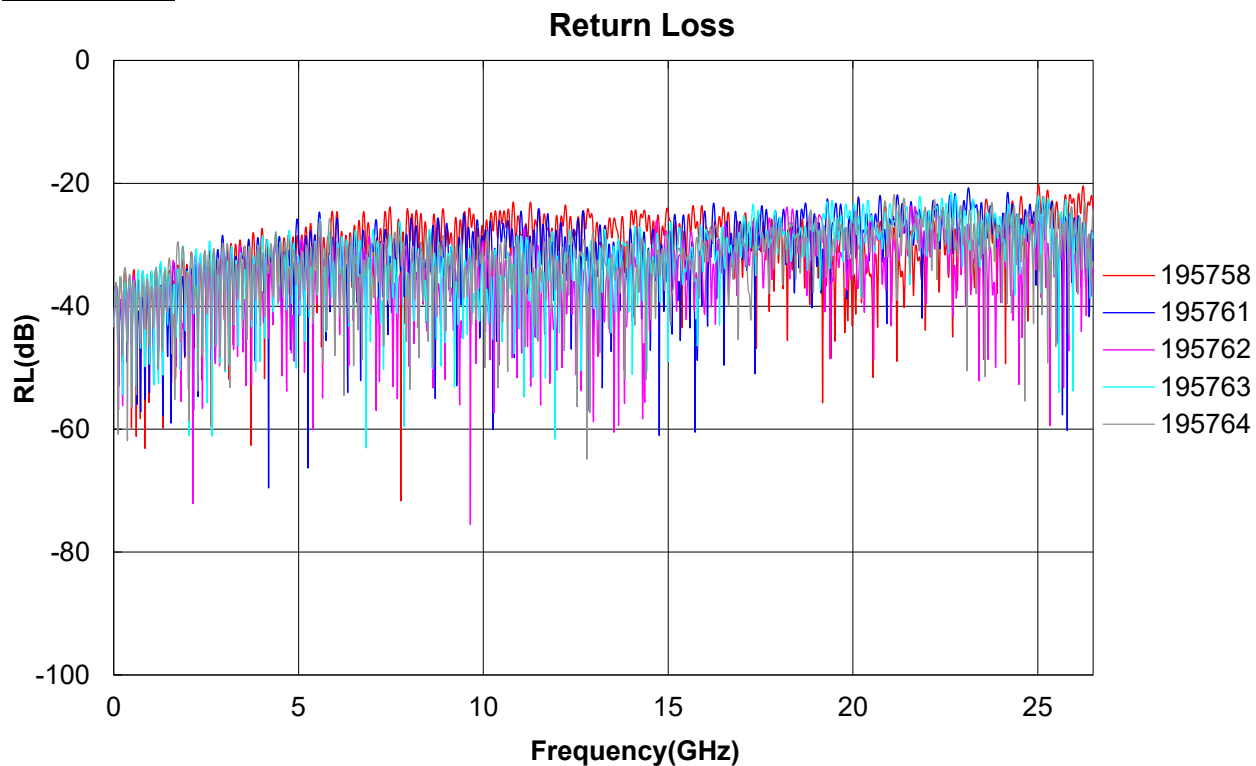
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Jack End Option

Results: RF086-00MJ-00MJ-1000

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
195758	1.22@25.02 GHz	-20.17@25.02 GHz	-4.20@26.46 GHz
195761	1.20@23.13 GHz	-20.73@23.13 GHz	-4.22@26.49 GHz
195762	1.14@21.56 GHz	-23.61@21.56 GHz	-4.15@26.42 GHz
195763	1.19@22.66 GHz	-21.41@22.66 GHz	-4.17@26.49 GHz
195764	1.18@21.12 GHz	-21.82@21.12 GHz	-4.14@26.50 GHz

VSWR



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