



RF Characterization Report

RF086-01SP-01SP-XXXX



RF086-01SB-01SB-XXXX



RF086-01BJ-01BJ-XXXX



Test Date: Dec 2022

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

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

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Series: RF086

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

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF086 RF cable assembly with SMA 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	26.5 GHz
Points	2650
Test Cables	Gore 0F0CACB036.0-LF

Calibration Type:

A mechanical calibration is performed using the Maury 2.92mm 8770CK11 Mechanical Calibration kit.

Calibration Kit	Maury 2.92mm 8770CK11 Mechanical Calibration Kit
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Adapter Use:

BO-JIANG 1.85mm(F) to 2.92mm(F) adapter were used for RF086-01SP-01SP-XXXX, 1.85mm(F) to 2.92mm(M) adapter were used for RF086-01SB-01SB-XXXX and RF086-01BJ-01BJ-XXXX testing, but the adapters effect was removed from the measurement by MCAL.

Series: RF086

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

RF086-01XX-01XX-XXXX Test Definition

Part Number	End 1	End 2
RF086-01SP-01SP-XXXX	SMA Straight Plug	SMA Straight Plug
RF086-01SB-01SB-XXXX	SMA Sealed Bulkhead Jack	SMA Sealed Bulkhead Jack
RF086-01BJ-01BJ-XXXX	SMA Bulkhead Jack	SMA Bulkhead Jack

Cable Under Test:



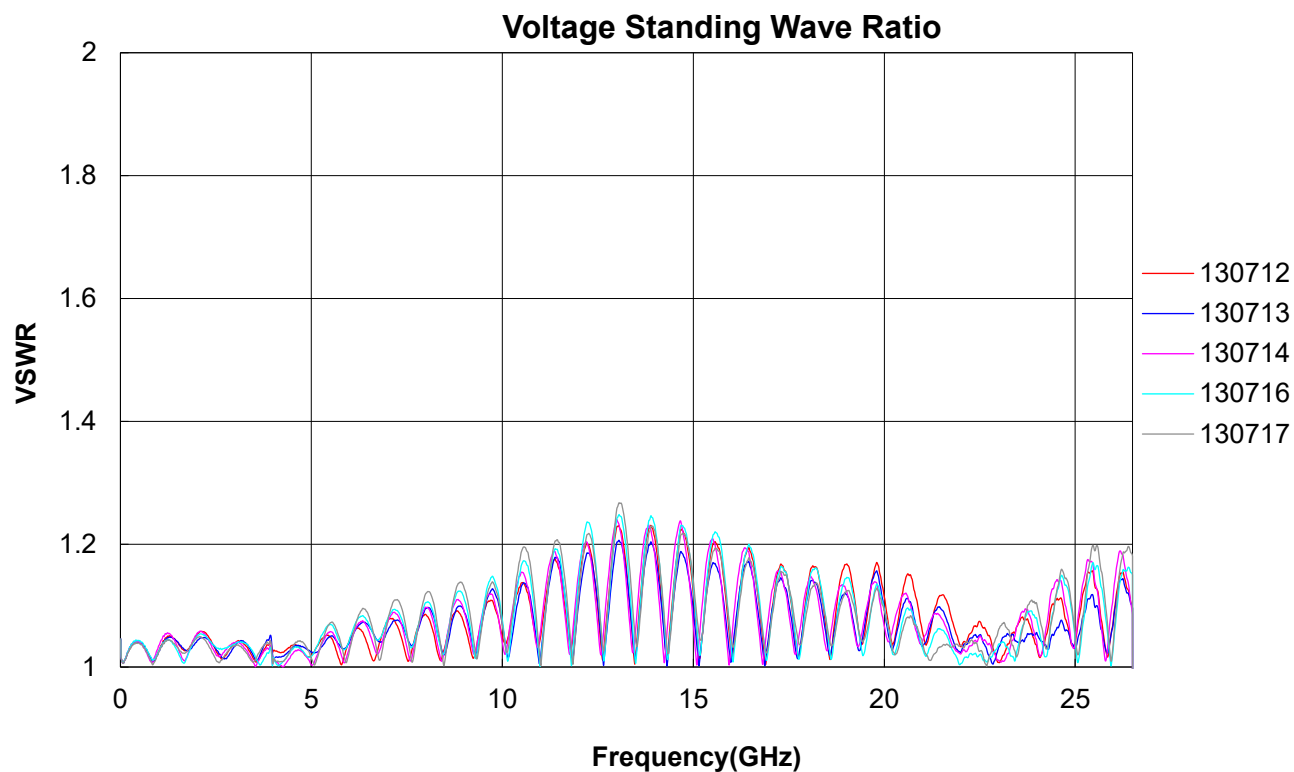
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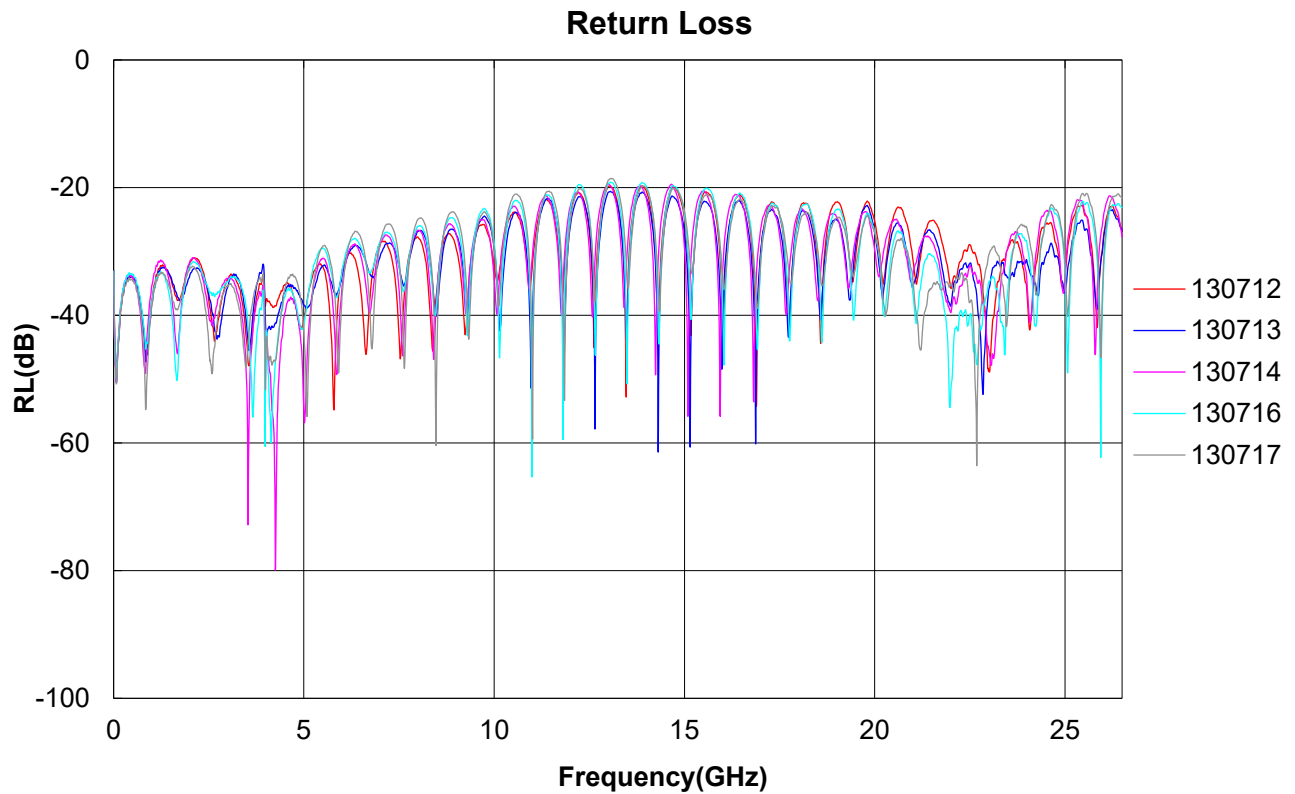
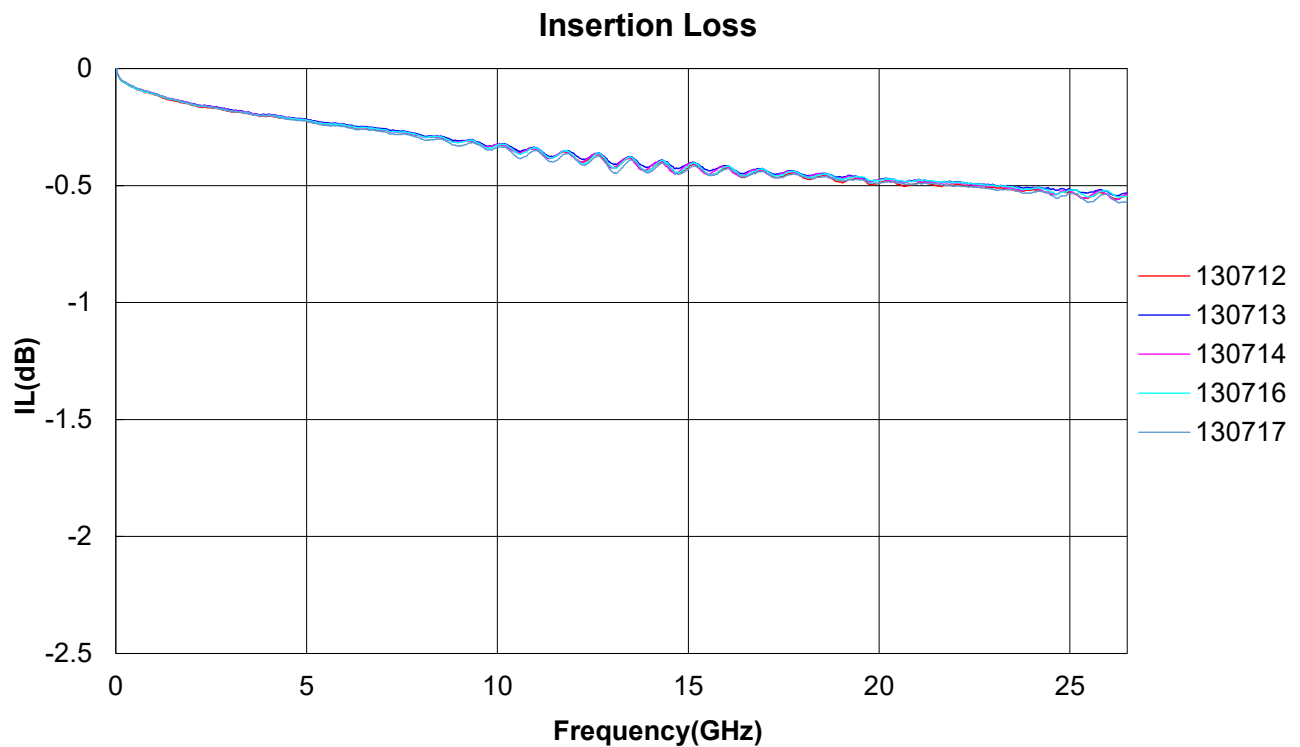
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01SP-01SP-0152

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
130712	1.23 @ 13.89 GHz	-19.71 @ 13.89 GHz	-0.56 @ 26.18 GHz
130713	1.21 @ 13.05 GHz	-20.59 @ 13.05 GHz	-0.55 @ 26.18 GHz
130714	1.24 @ 13.00 GHz	-19.40 @ 13.00 GHz	-0.57 @ 26.18 GHz
130716	1.25 @ 13.06 GHz	-19.15 @ 13.06 GHz	-0.56 @ 26.30 GHz
130717	1.27 @ 13.06 GHz	-18.57 @ 13.06 GHz	-0.58 @ 26.30 GHz

VSWR



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

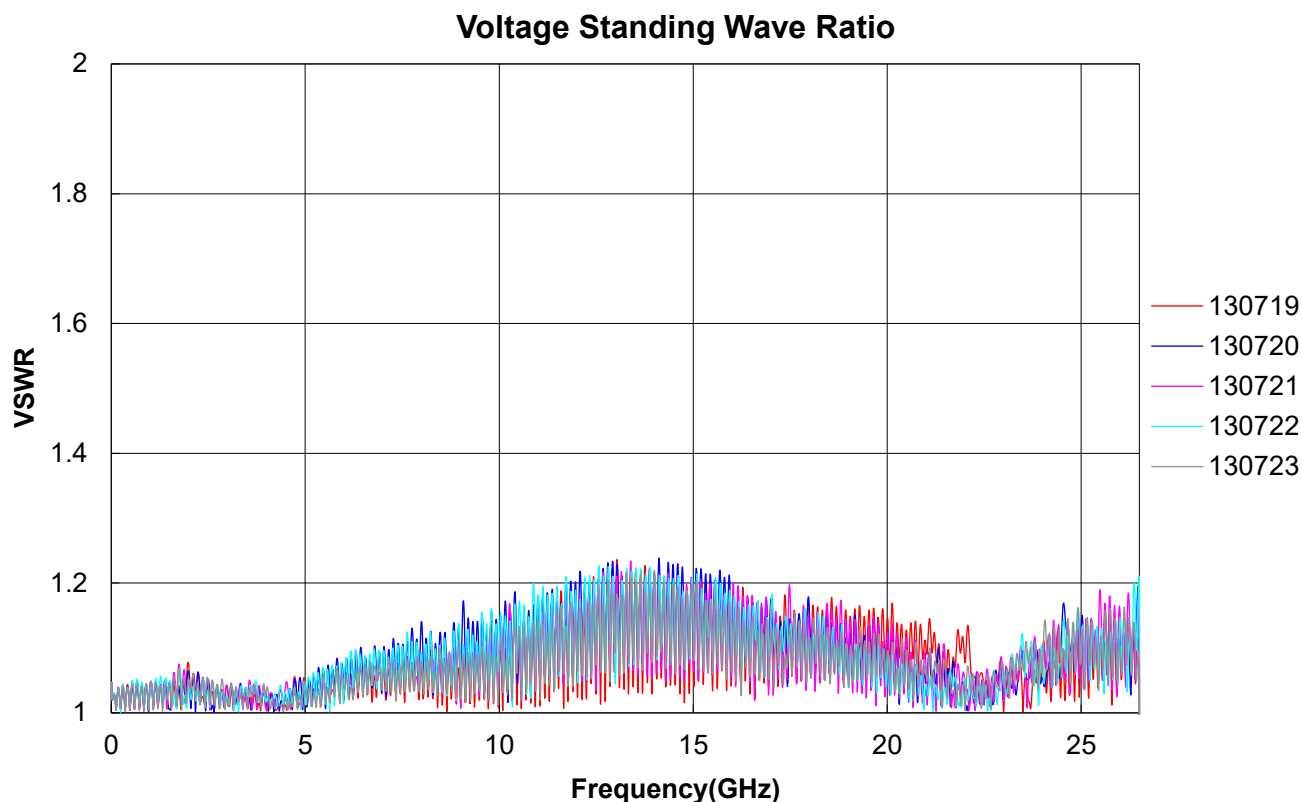
Series: RF086

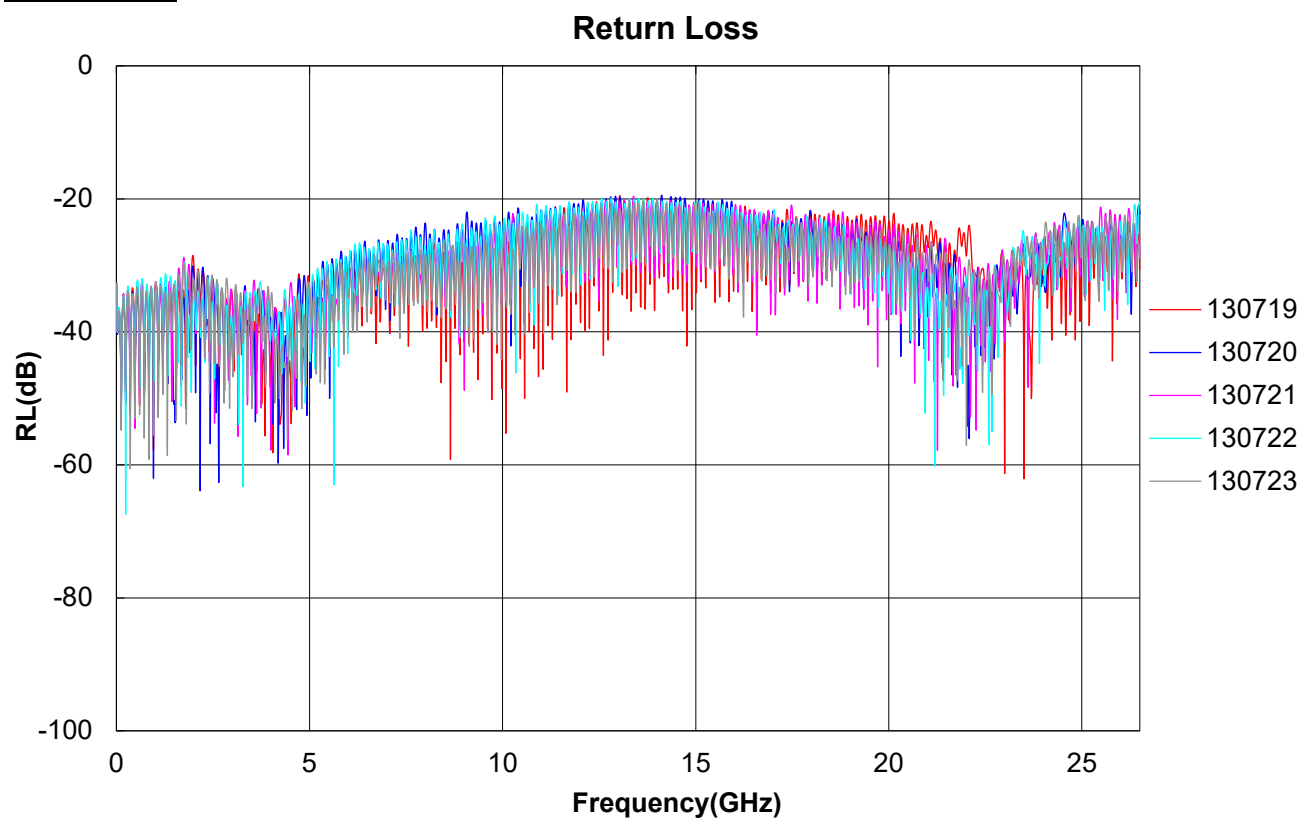
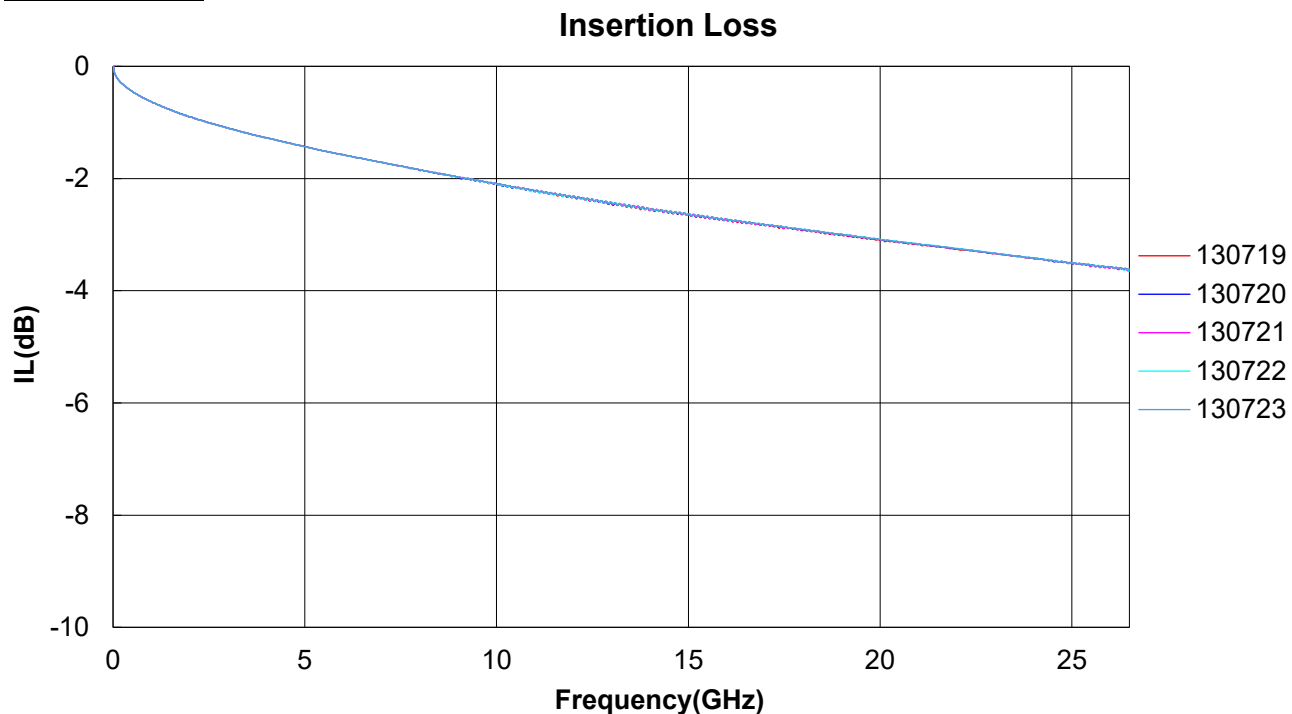
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01SP-01SP-1000

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
130719	1.24 @ 13.03 GHz	-19.52 @ 13.03 GHz	-3.63 @ 26.46 GHz
130720	1.24 @ 14.12 GHz	-19.44 @ 14.12 GHz	-3.65 @ 26.47 GHz
130721	1.23 @ 13.39 GHz	-19.59 @ 13.39 GHz	-3.64 @ 26.46 GHz
130722	1.23 @ 12.57 GHz	-19.85 @ 12.57 GHz	-3.65 @ 26.50 GHz
130723	1.22 @ 14.00 GHz	-20.08 @ 14.00 GHz	-3.62 @ 26.36 GHz

VSWR



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

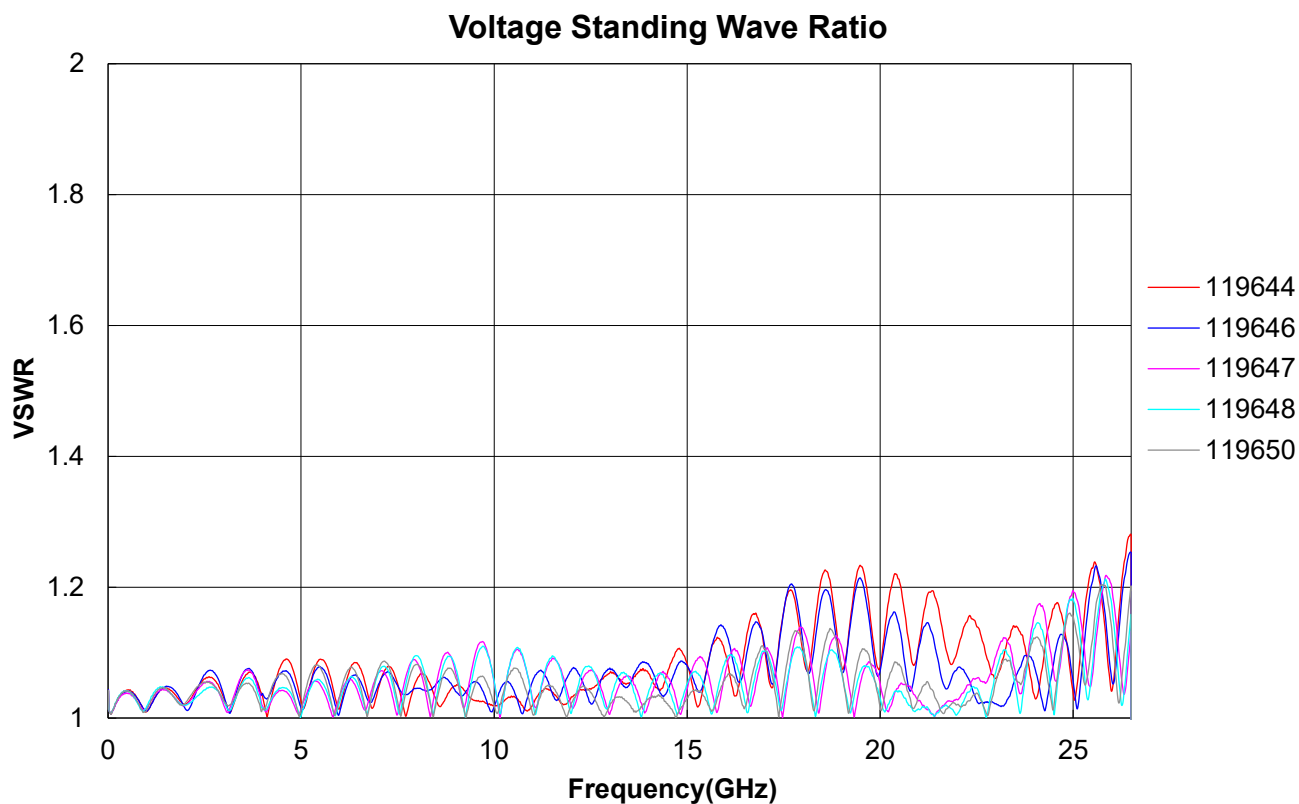
Series: RF086

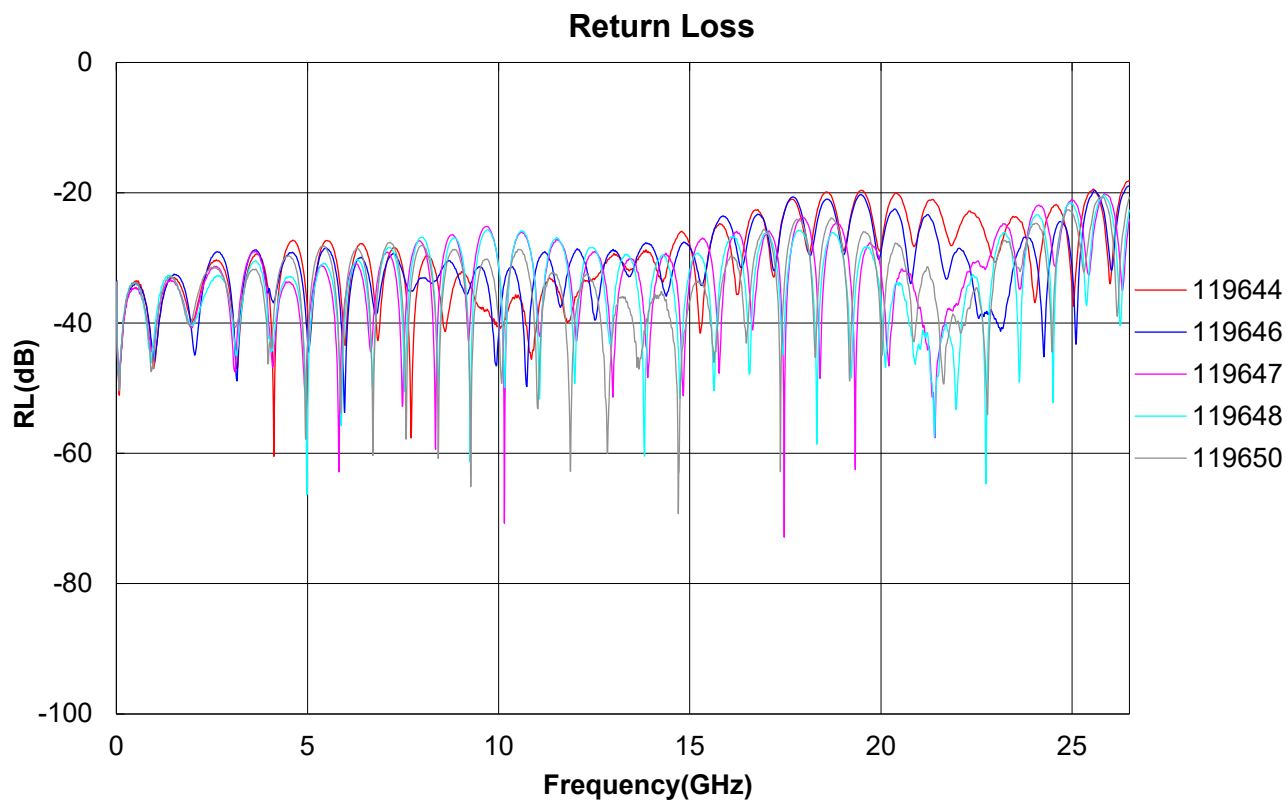
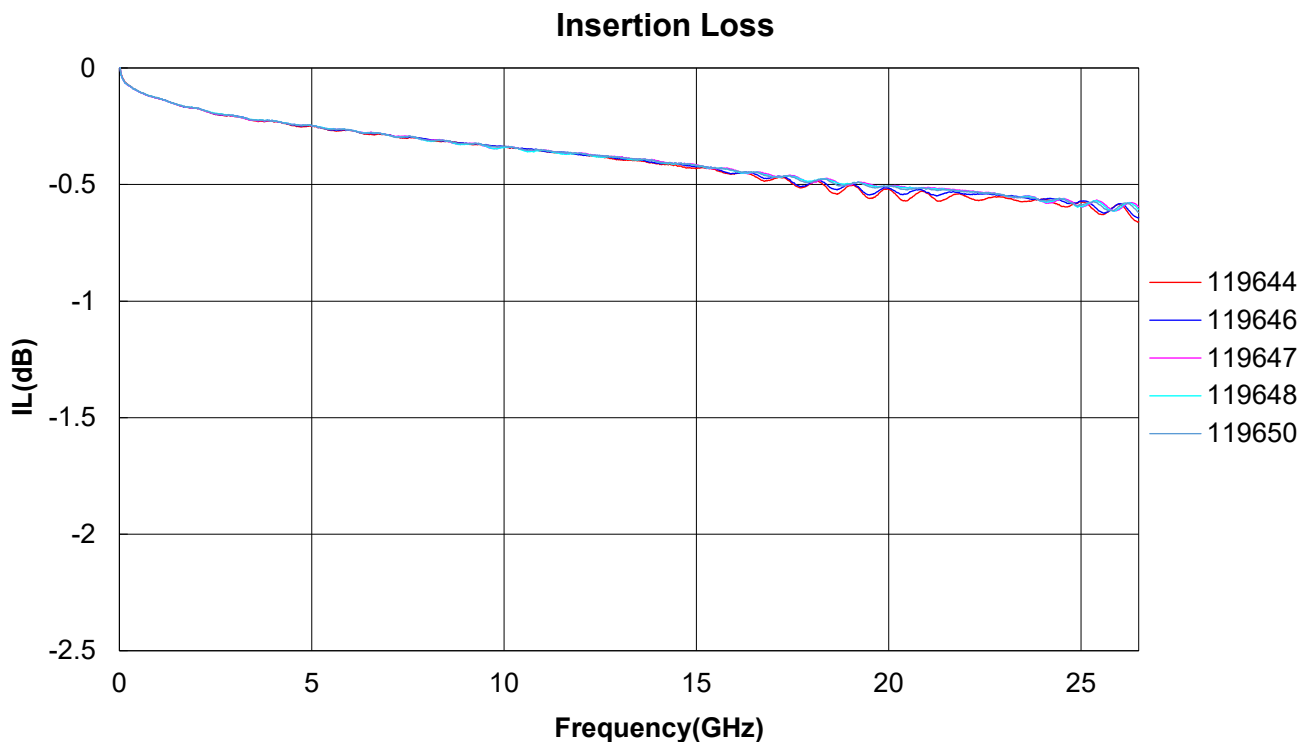
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01SB-01SB-0152

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
119644	1.28 @ 26.49 GHz	-18.19 @ 26.49 GHz	-0.66 @ 26.50 GHz
119646	1.25 @ 26.48 GHz	-18.98 @ 26.48 GHz	-0.65 @ 26.50 GHz
119647	1.22 @ 25.85 GHz	-22.15 @ 25.85 GHz	-0.62 @ 25.89 GHz
119648	1.21 @ 25.83 GHz	-20.35 @ 25.83 GHz	-0.62 @ 25.85 GHz
119650	1.20 @ 25.77 GHz	-20.67 @ 25.77 GHz	-0.63 @ 26.50 GHz

VSWR



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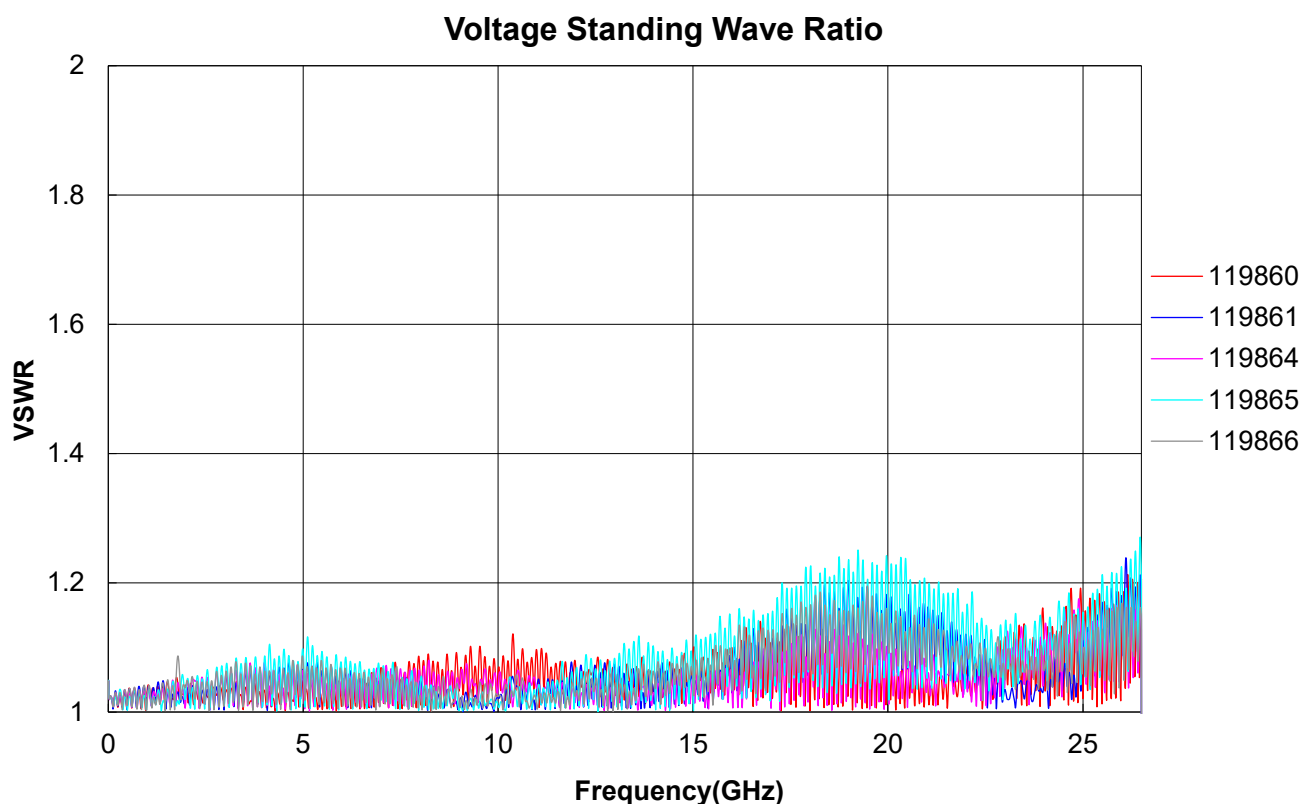
Series: RF086

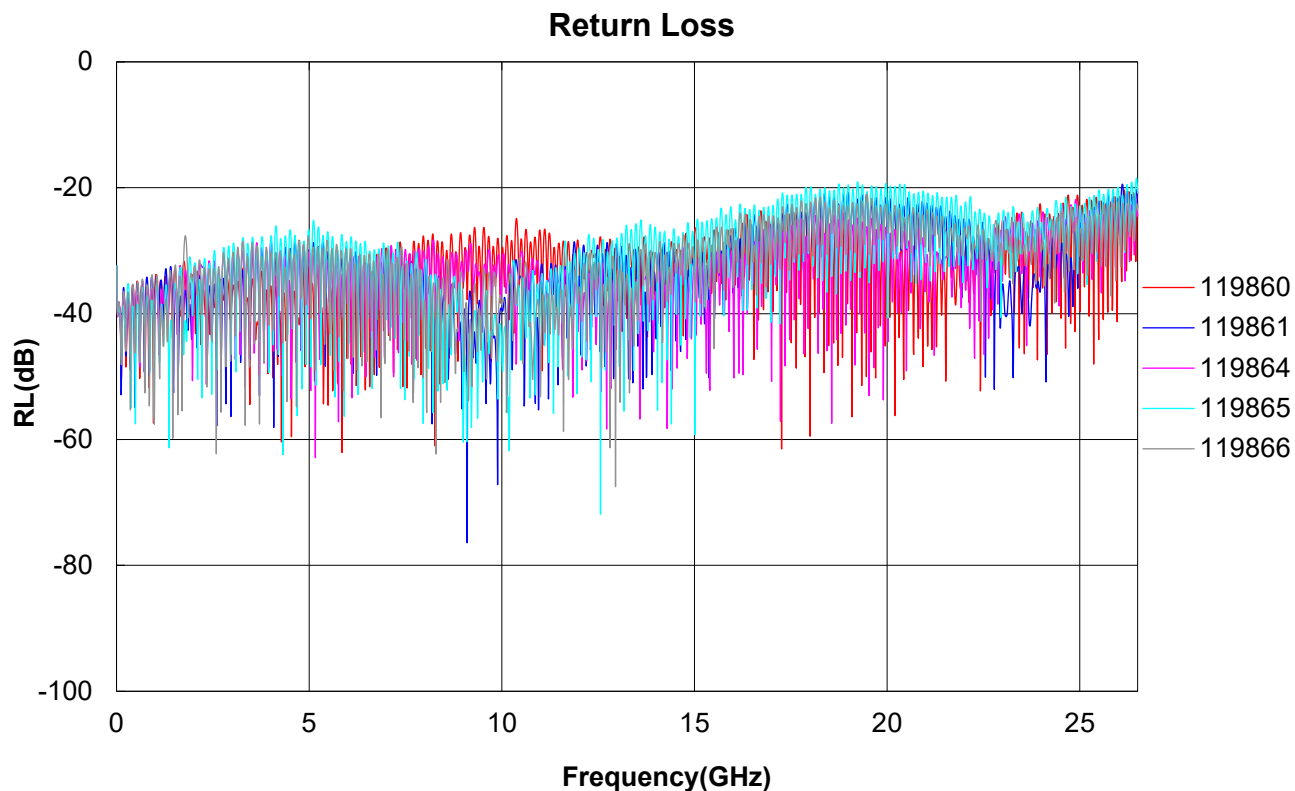
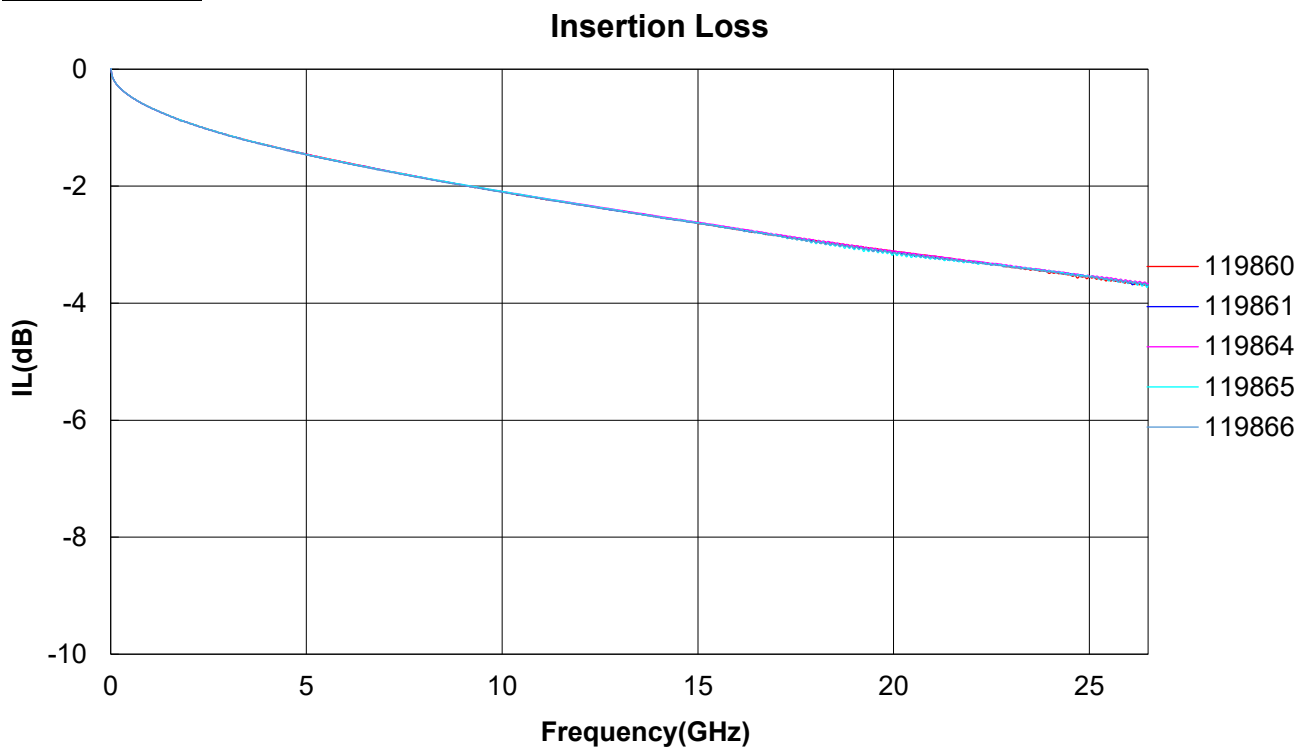
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01SB-01SB-1000

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
119860	1.21 @ 26.15 GHz	-20.34 @ 26.15 GHz	-3.72 @ 26.50 GHz
119861	1.24 @ 26.10 GHz	-19.44 @ 26.10 GHz	-3.71 @ 26.47 GHz
119864	1.18 @ 26.11 GHz	-21.72 @ 26.11 GHz	-3.67 @ 26.48 GHz
119865	1.27 @ 26.47 GHz	-18.47 @ 26.47 GHz	-3.73 @ 26.47 GHz
119866	1.20 @ 19.47 GHz	-21.03 @ 19.47 GHz	-3.69 @ 26.48 GHz

VSWR



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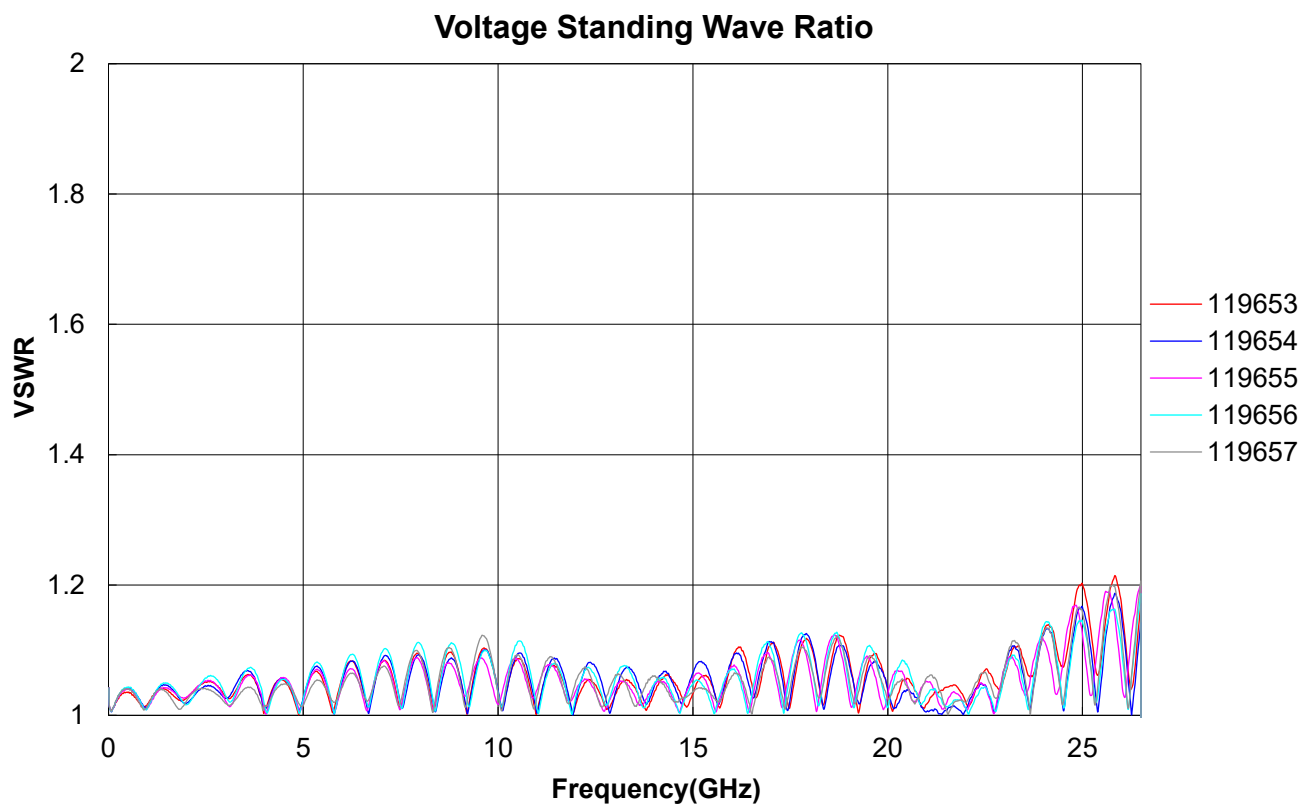
Series: RF086

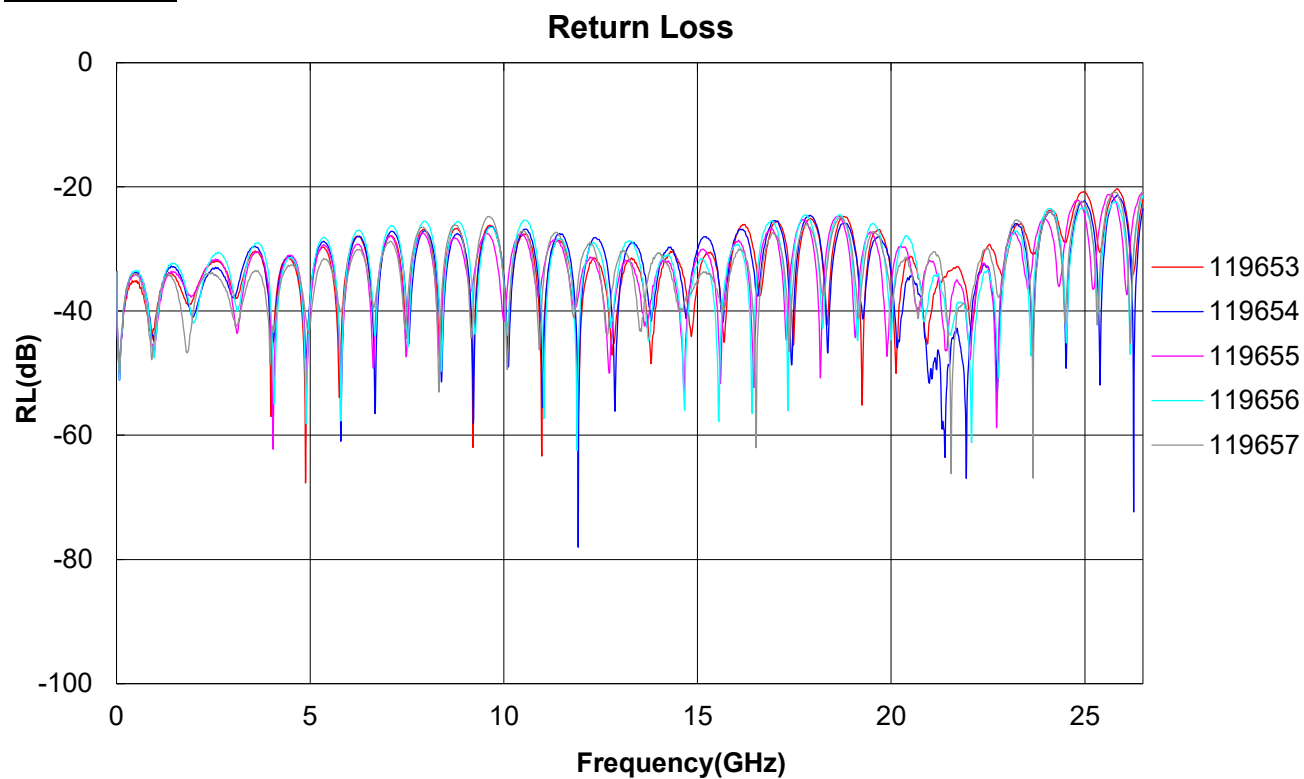
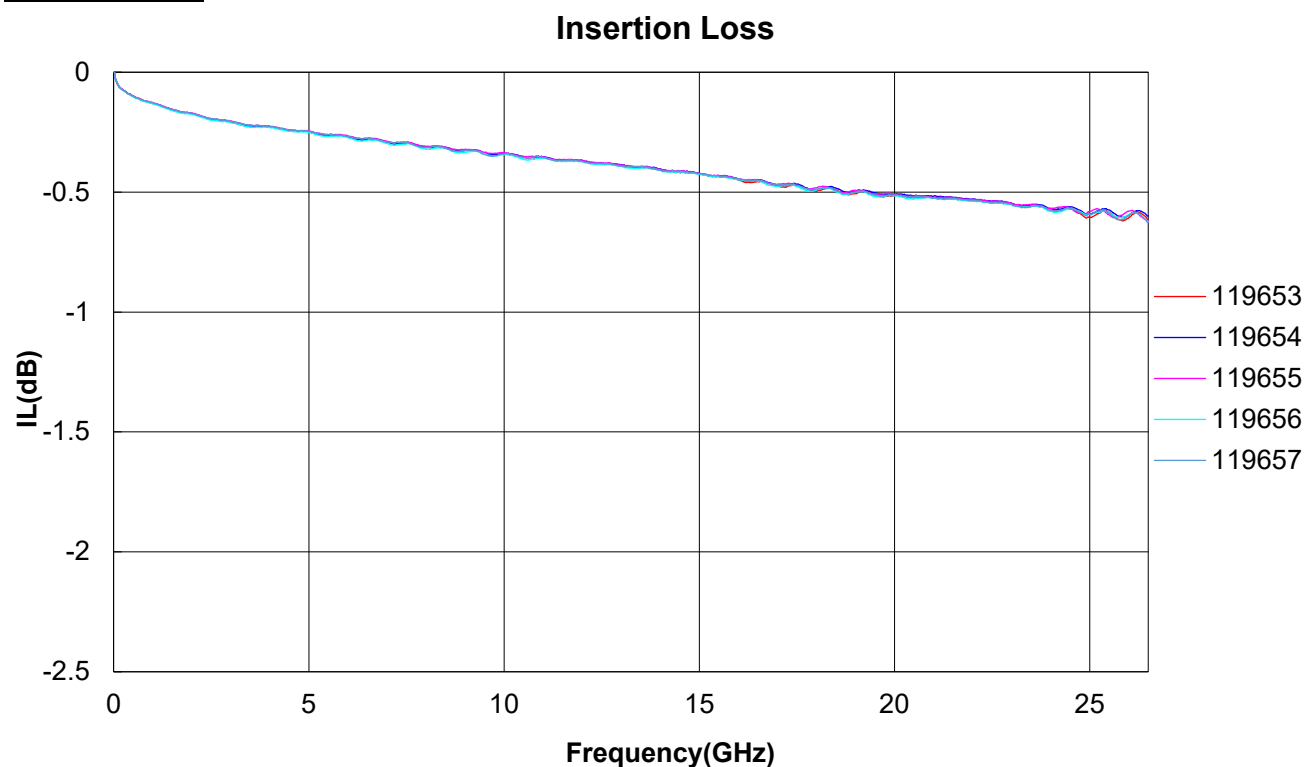
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01BJ-01BJ-0152

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
119653	1.21 @ 25.83 GHz	-20.28 @ 25.83 GHz	-0.63 @ 25.85 GHz
119654	1.19 @ 25.83 GHz	-21.35 @ 25.83 GHz	-0.61 @ 25.85 GHz
119655	1.20 @ 26.49 GHz	-20.90 @ 26.49 GHz	-0.62 @ 26.50 GHz
119656	1.19 @ 26.50 GHz	-21.36 @ 26.50 GHz	-0.63 @ 26.50 GHz
119657	1.21 @ 26.50 GHz	-20.58 @ 26.50 GHz	-0.63 @ 26.50 GHz

VSWR



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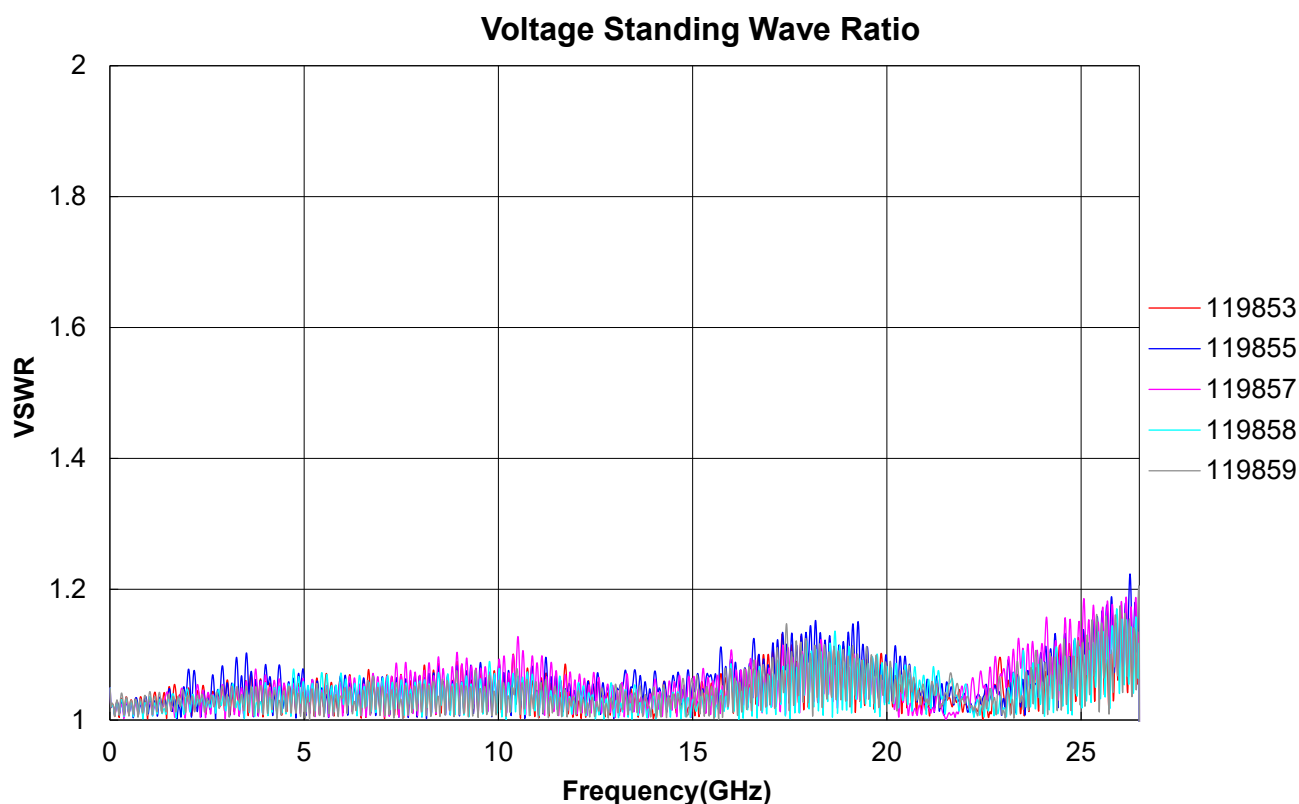
Series: RF086

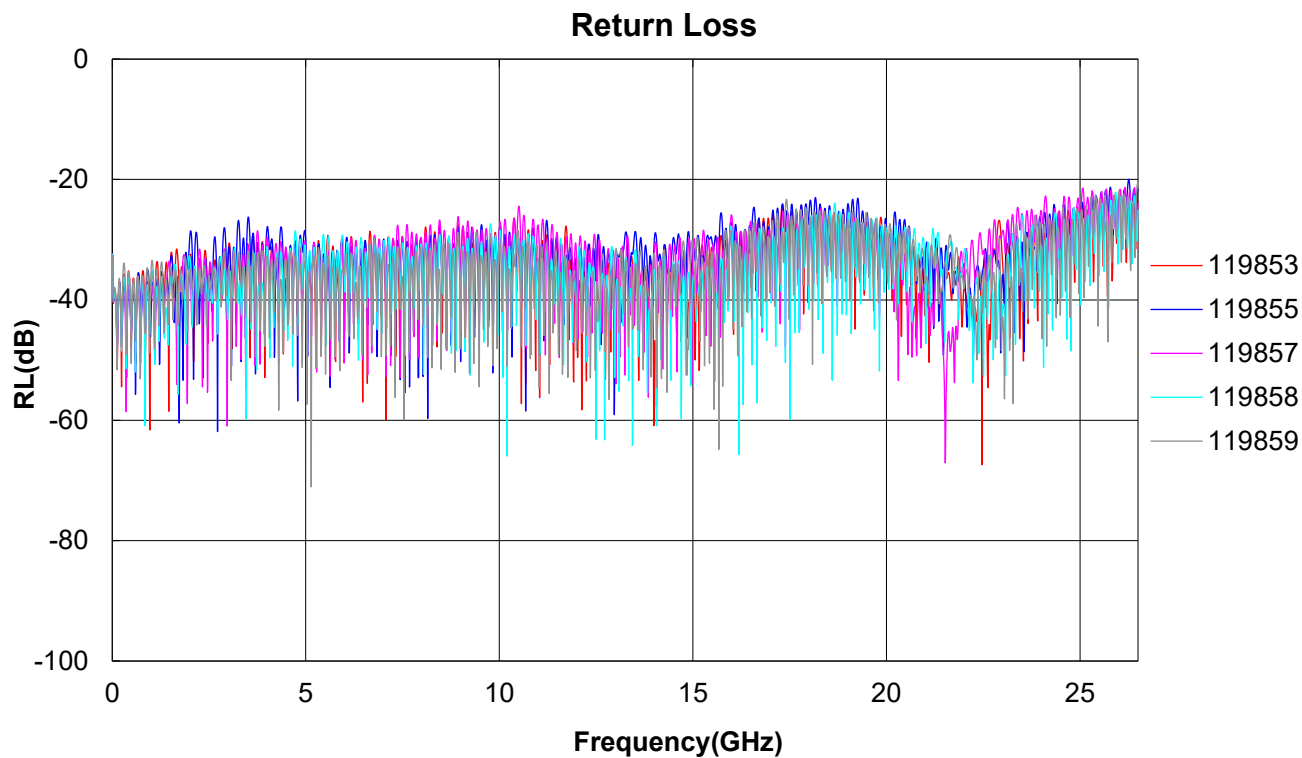
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMA End Option

Results: RF086-01BJ-01BJ-1000

Description: RF086 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
119853	1.17 @ 26.02 GHz	-22.03 @ 26.02 GHz	-3.66 @ 26.50 GHz
119855	1.22 @ 26.26 GHz	-19.96 @ 26.26 GHz	-3.68 @ 26.50 GHz
119857	1.19 @ 26.16 GHz	-21.32 @ 26.16 GHz	-3.68 @ 26.41 GHz
119858	1.17 @ 25.92 GHz	-22.11 @ 25.92 GHz	-3.66 @ 26.41 GHz
119859	1.21 @ 26.49 GHz	-20.62 @ 26.49 GHz	-3.70 @ 26.49 GHz

VSWR



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