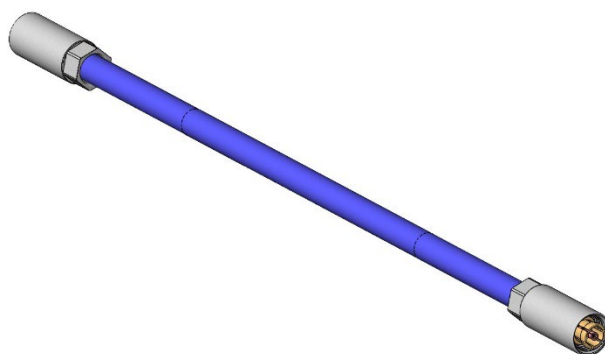




RF Characterization Report

RF086-MTSJ-MTSJ-XXXX



Test Date: Nov 2025

Description:
50 Ohm, .086" RF Millimeter Wave Cable Assembly,
Threaded SMPM Jack End Options

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

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:.....	1
Calibration Type:.....	1
Adapter Use:.....	1
RF086-MTSJ-MTSJ-XXXX Test Definition	2
Cable Under Test:.....	2
Results: RF086-MTSJ-MTSJ-0152.....	3
VSWR	3
Return Loss.....	4
Insertion Loss.....	4
Results: RF086-MTSJ-MTSJ-1000.....	5
VSWR	5
Return Loss.....	6
Insertion Loss.....	6

Series: RF086

Description: 50 Ohm, .086" RF Millimeter Wave Cable Assembly, SMPM Jack End Options

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF086 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.

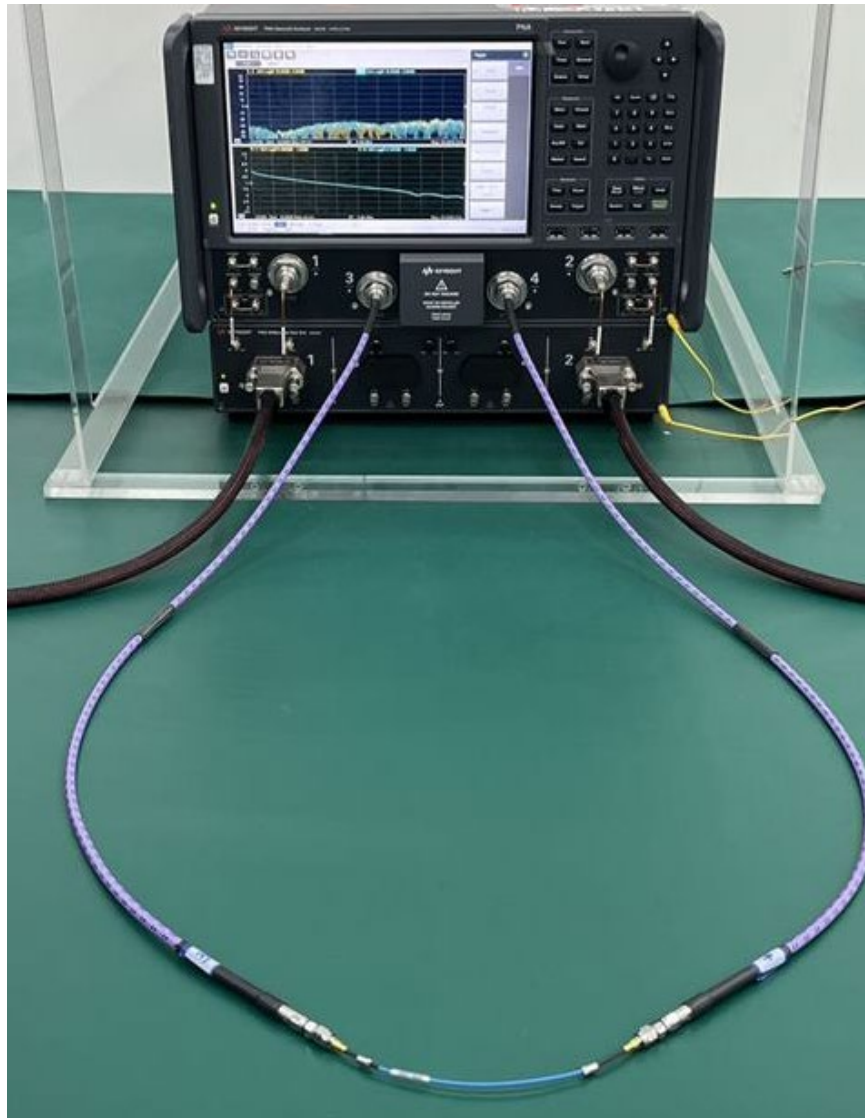
Series: RF086

Description: 50 Ohm, .086" RF Millimeter Wave Cable Assembly, SMPM Jack End Options

RF086-MTSJ-MTSJ-XXXX Test Definition

Part Number	End 1	End 2
RF086-MTSJ-MTSJ-0152	SMPM Jack	SMPM Jack
RF086-MTSJ-MTSJ-1000	SMPM Jack	SMPM Jack

Cable Under Test:



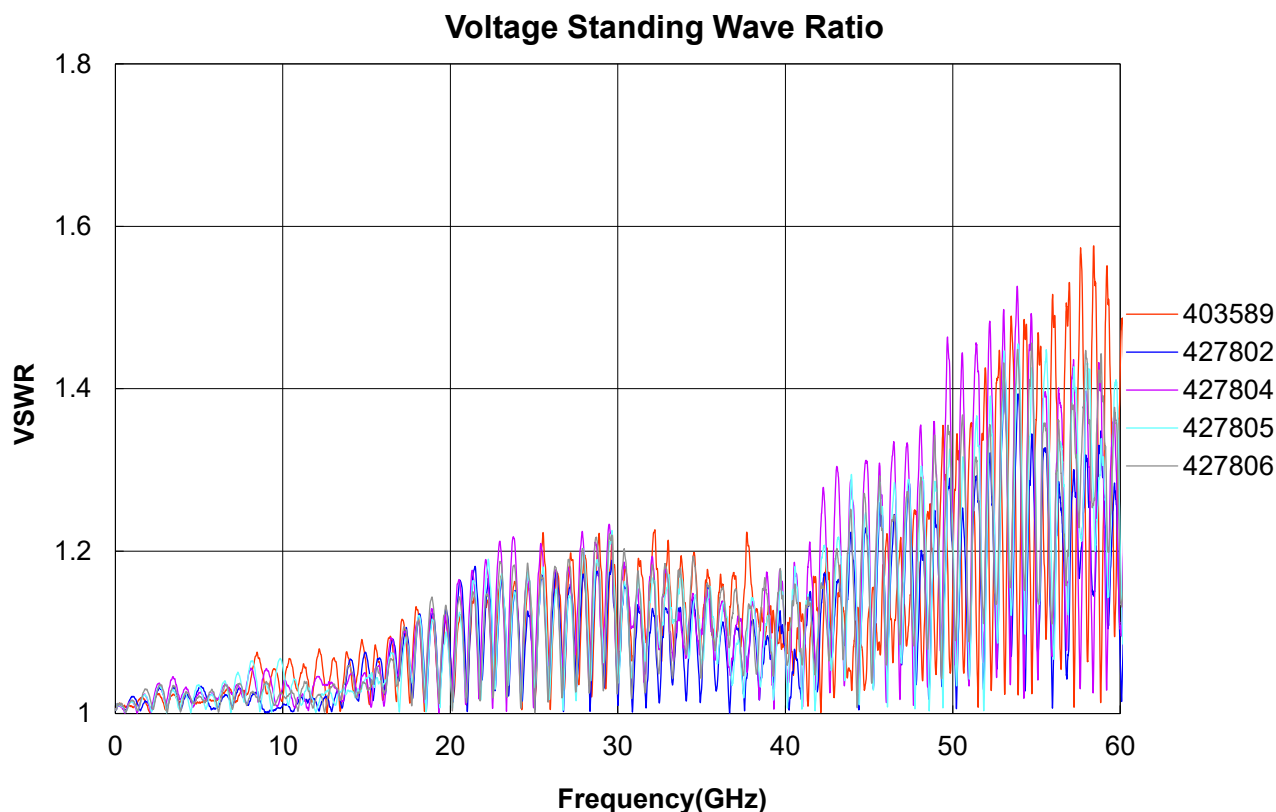
Series: RF086

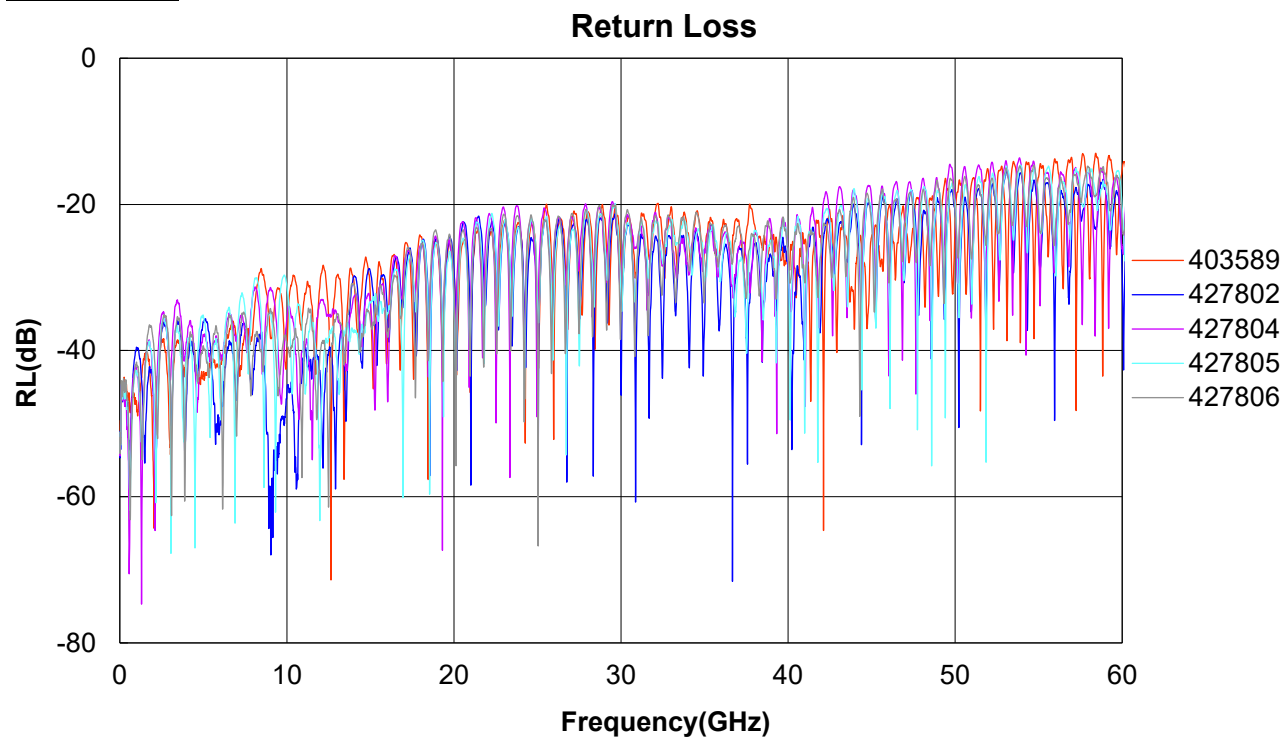
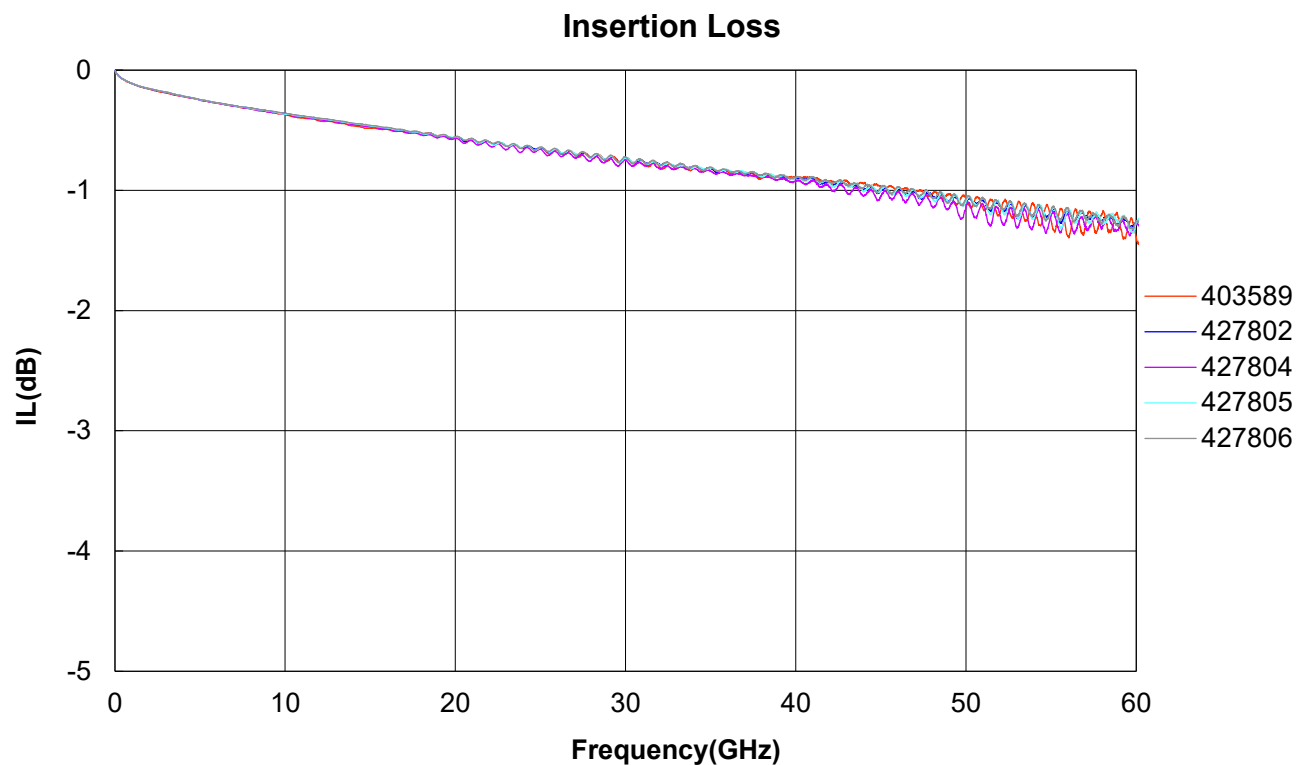
Description: 50 Ohm, .086" RF Millimeter Wave Cable Assembly, SMPM Jack End Options

Results: RF086-MTSJ-MTSJ-0152

Description: RF086 High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-40 (GHz)	SWR (Max) 40-60 (GHz)	RL (dB, max) DC-40 (GHz)	RL (dB, max) 40-60 (GHz)	IL (dB, min) DC-40 (GHz)	IL (dB, min) 40-60 (GHz)
403589	1.23 @ 32.22 GHz	1.58 @ 58.42 GHz	-19.86 @ 32.22 GHz	-13.01 @ 58.42 GHz	-0.91 @ 37.85 GHz	-1.41 @ 59.25 GHz
427802	1.19 @ 29.64 GHz	1.41 @ 53.05 GHz	-21.28 @ 29.64 GHz	-15.33 @ 53.05 GHz	-0.91 @ 39.97 GHz	-1.31 @ 59.73 GHz
427804	1.23 @ 29.49 GHz	1.53 @ 53.85 GHz	-19.63 @ 29.49 GHz	-13.63 @ 53.85 GHz	-0.94 @ 39.84 GHz	-1.38 @ 59.62 GHz
427805	1.23 @ 29.65 GHz	1.46 @ 53.90 GHz	-19.88 @ 29.65 GHz	-14.63 @ 53.90 GHz	-0.91 @ 39.84 GHz	-1.36 @ 59.82 GHz
427806	1.22 @ 29.50 GHz	1.46 @ 54.72 GHz	-20.03 @ 29.50 GHz	-14.62 @ 54.72 GHz	-0.90 @ 39.84 GHz	-1.32 @ 59.82 GHz

VSWR



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

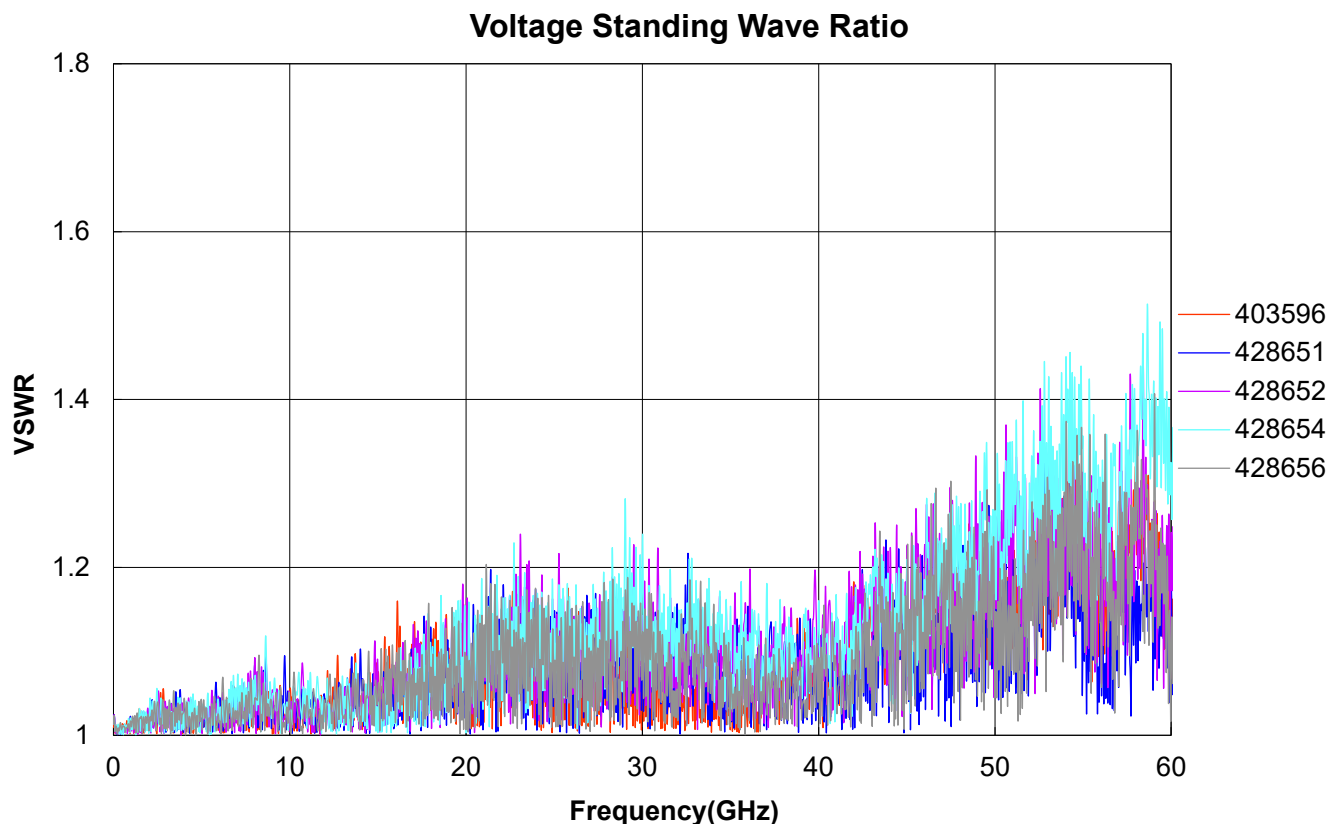
Series: RF086

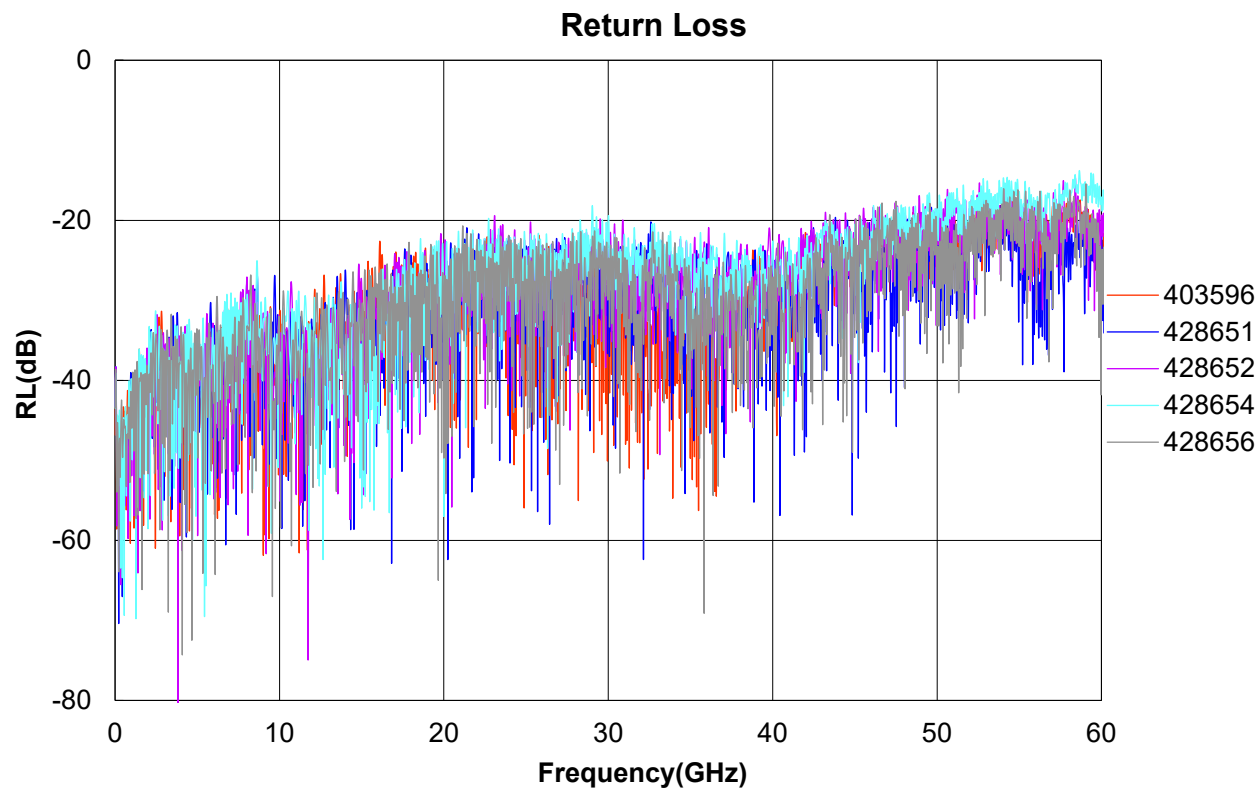
Description: 50 Ohm, .086" RF Millimeter Wave Cable Assembly, SMPM Jack End Options

Results: RF086-MTSJ-MTSJ-1000

Description: RF086 High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-40 (GHz)	SWR (Max) 40-60 (GHz)	RL (dB, max) DC-40 (GHz)	RL (dB, max) 40-60 (GHz)	IL (dB, min) DC-40 (GHz)	IL (dB, min) 40-60 (GHz)
403596	1.18 @ 25.78 GHz	1.33 @ 54.59 GHz	-21.87 @ 25.78 GHz	-17.05 @ 54.59 GHz	-4.66 @ 39.97 GHz	-6.13 @ 59.82 GHz
428651	1.22 @ 32.59 GHz	1.34 @ 53.07 GHz	-20.19 @ 32.59 GHz	-16.80 @ 53.07 GHz	-4.66 @ 40.00 GHz	-6.27 @ 57.78 GHz
428652	1.24 @ 23.08 GHz	1.45 @ 58.41 GHz	-19.41 @ 23.08 GHz	-14.69 @ 58.41 GHz	-4.69 @ 39.79 GHz	-6.25 @ 59.88 GHz
428654	1.28 @ 29.03 GHz	1.51 @ 58.65 GHz	-18.17 @ 29.03 GHz	-13.79 @ 58.65 GHz	-4.76 @ 40.00 GHz	-6.36 @ 59.37 GHz
428656	1.20 @ 21.15 GHz	1.41 @ 59.06 GHz	-20.69 @ 21.15 GHz	-15.44 @ 59.06 GHz	-4.68 @ 39.91 GHz	-6.26 @ 59.04 GHz

VSWR



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