

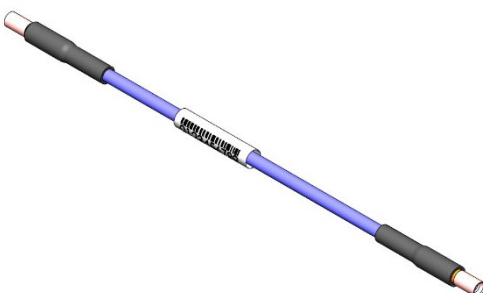


RF Characterization Report

RF086-M0SJ-M0SJ-XXXX



RF086-M0SP-M0SP-XXXX



Test Date: Oct 2021

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

Series: RF086**Description:** 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

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Series: RF086

Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF086 RF 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	67 GHz
Points	6700
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:

1.85 mm Female to SMPM Male/Female adapters were used for the measurements of RF086-M0SJ-M0SJ-XXXX and RF086-M0SP-M0SP-XXXX. The adapter effects were removed from the measurement using the PNA's Fixture Removal method.

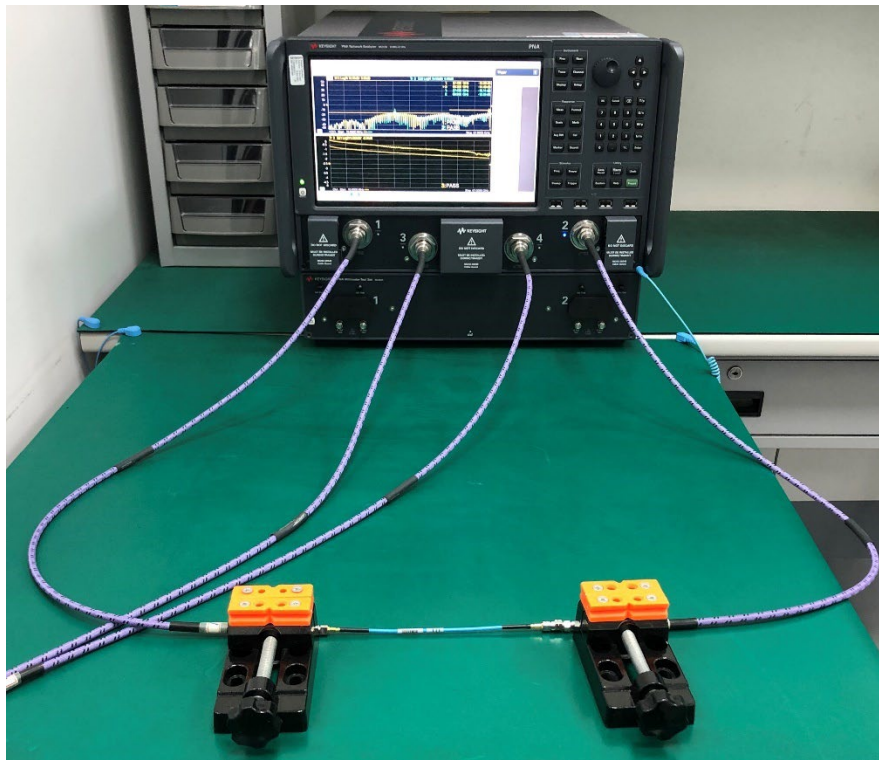
Series: RF086

Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

RF086-M0SX-M0SX-XXXX Test Definition

Part Number	End 1	End 2
RF086-M0SJ-M0SJ-0152	SMPM Straight Jack	SMPM Straight Jack
RF086-M0SJ-M0SJ-1000	SMPM Straight Jack	SMPM Straight Jack
RF086-M0SP-M0SP-0152	SMPM Straight Plug	SMPM Straight Plug
RF086-M0SP-M0SP-1000	SMPM Straight Plug	SMPM Straight Plug

Cable Under Test:



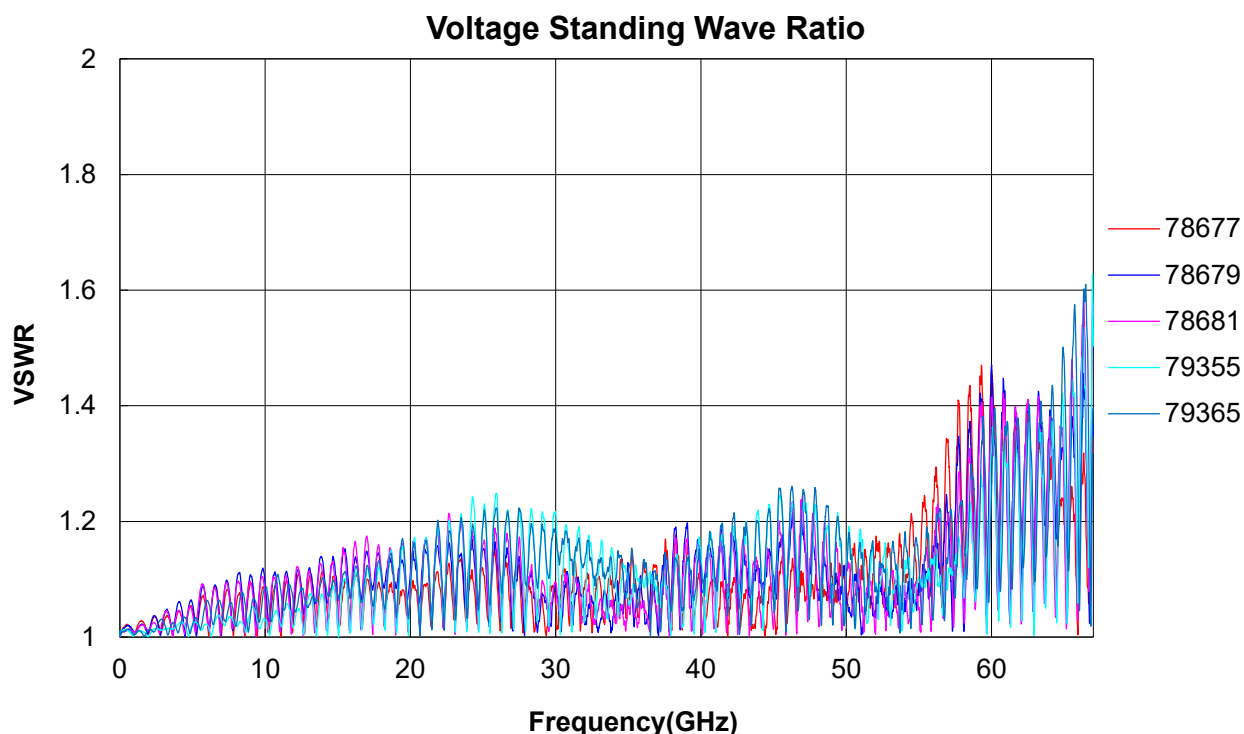
Series: RF086

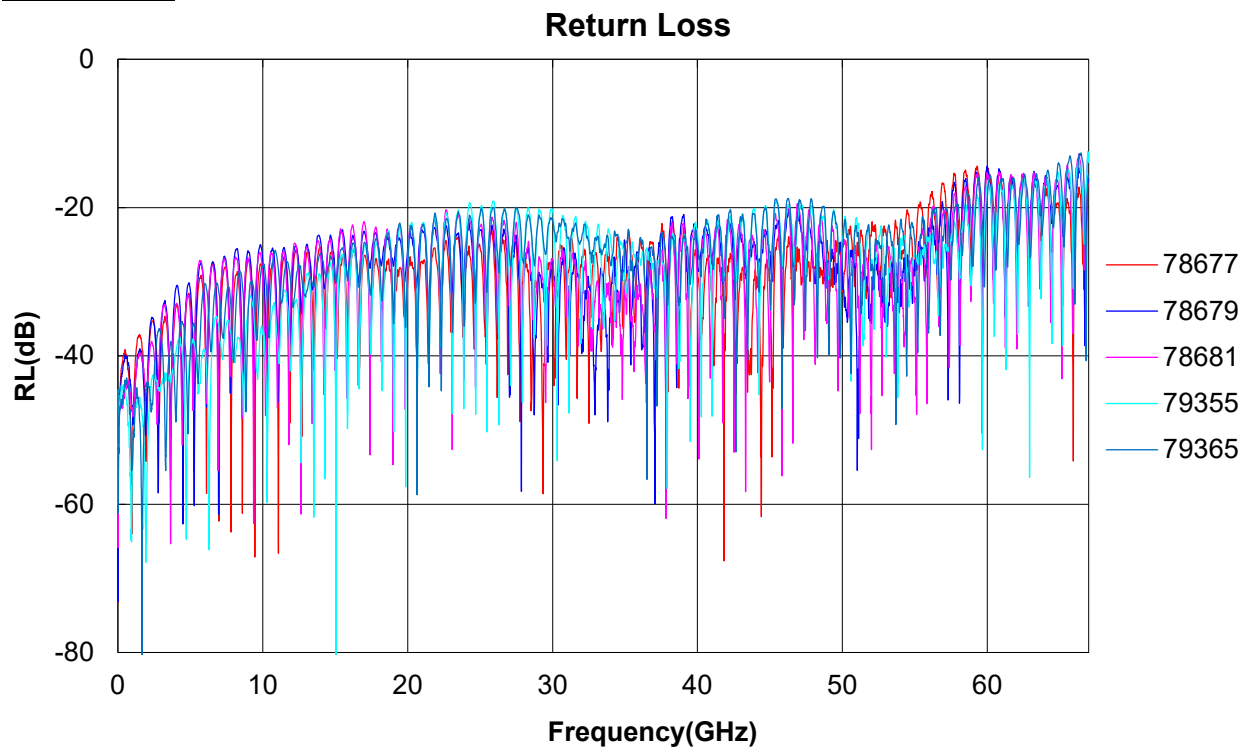
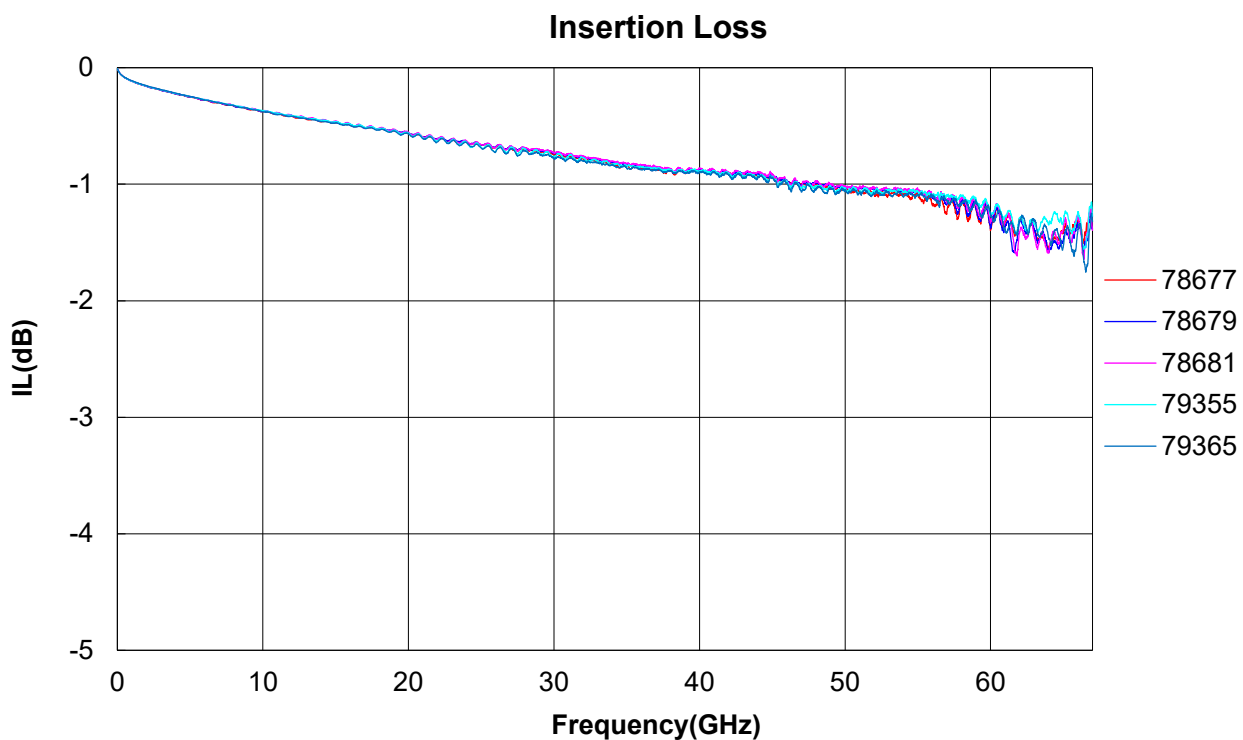
Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

Results: RF086-M0SJ-M0SJ-0152

Description: RF086 High Frequency RF Cable Assembly					
Sample	VSWR (max) DC to 50 GHz	VSWR (max) 50 to 67 GHz	RL (max) DC to 50 GHz	RL (max) 50 to 67 GHz	IL(min) DC to 67 GHz
78677	1.18 @ 38.27GHz	1.47 @ 59.30GHz	-21.80dB@ 38.27GHz	-14.41dB@ 59.30GHz	-1.56dB@ 63.99GHz
78679	1.22 @ 46.29GHz	1.47 @ 60.00GHz	-20.25dB@ 46.29GHz	-14.40dB@ 60.00GHz	-1.59dB@ 61.63GHz
78681	1.24 @ 46.98GHz	1.59 @ 66.34GHz	-19.25dB@ 46.98GHz	-12.81dB@ 66.34GHz	-1.65dB@ 66.41GHz
79355	1.25 @ 25.92GHz	1.63 @ 66.94GHz	-19.13dB@ 25.92GHz	-12.43dB@ 66.94GHz	-1.56dB@ 66.41GHz
79356	1.26 @ 46.27GHz	1.61 @ 66.47GHz	-18.77dB@ 46.27GHz	-12.62dB@ 66.47GHz	-1.76dB@ 66.53GHz

VSWR



Series: RF086**Description:** 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End OptionsReturn LossInsertion Loss

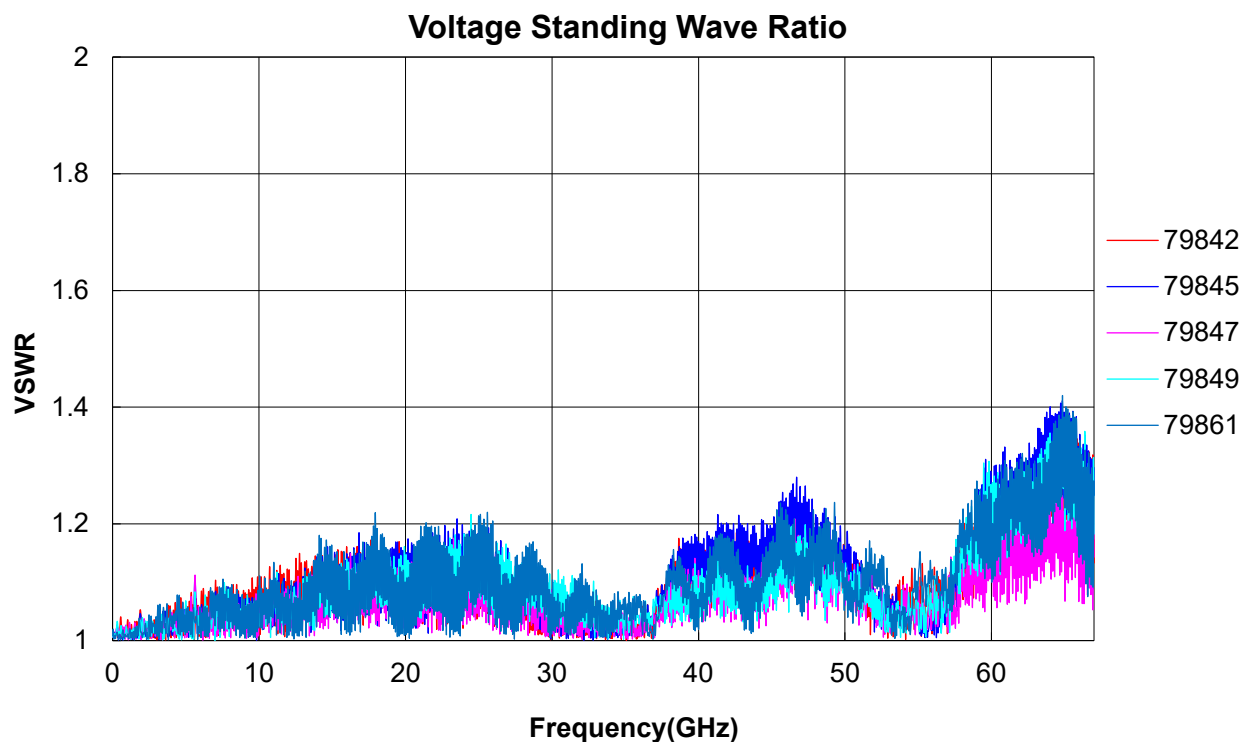
Series: RF086

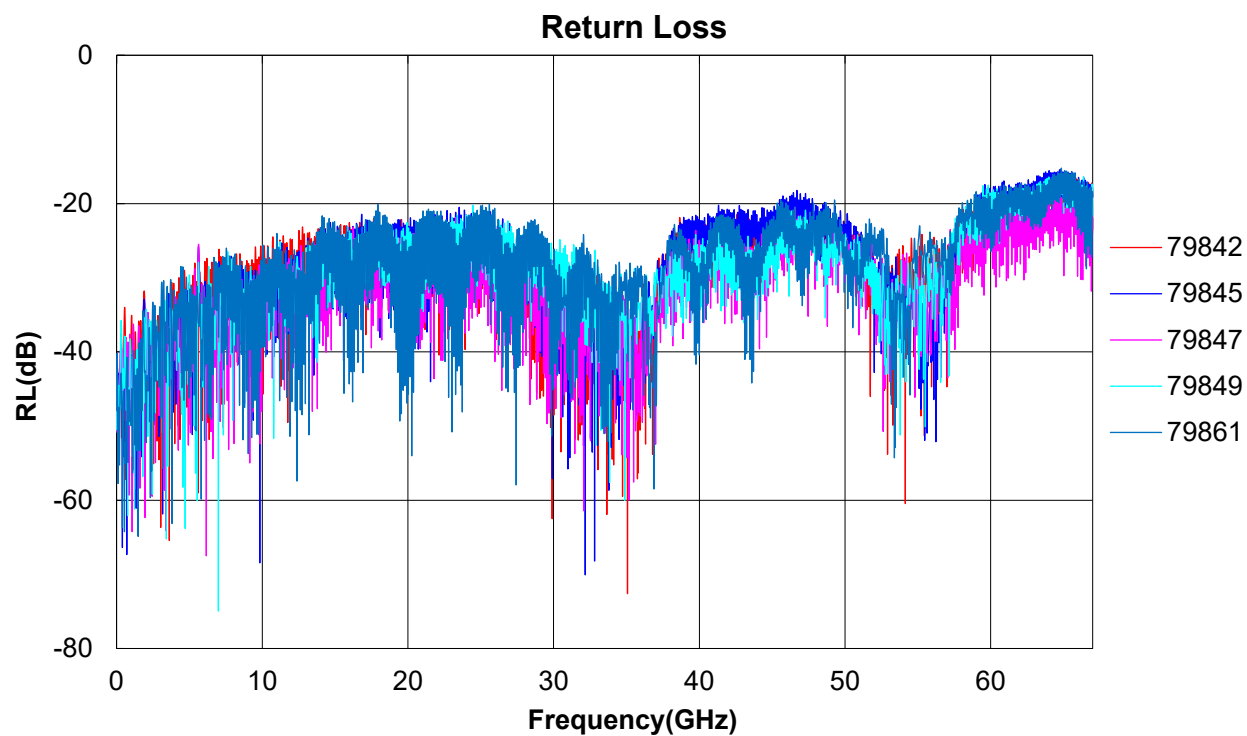
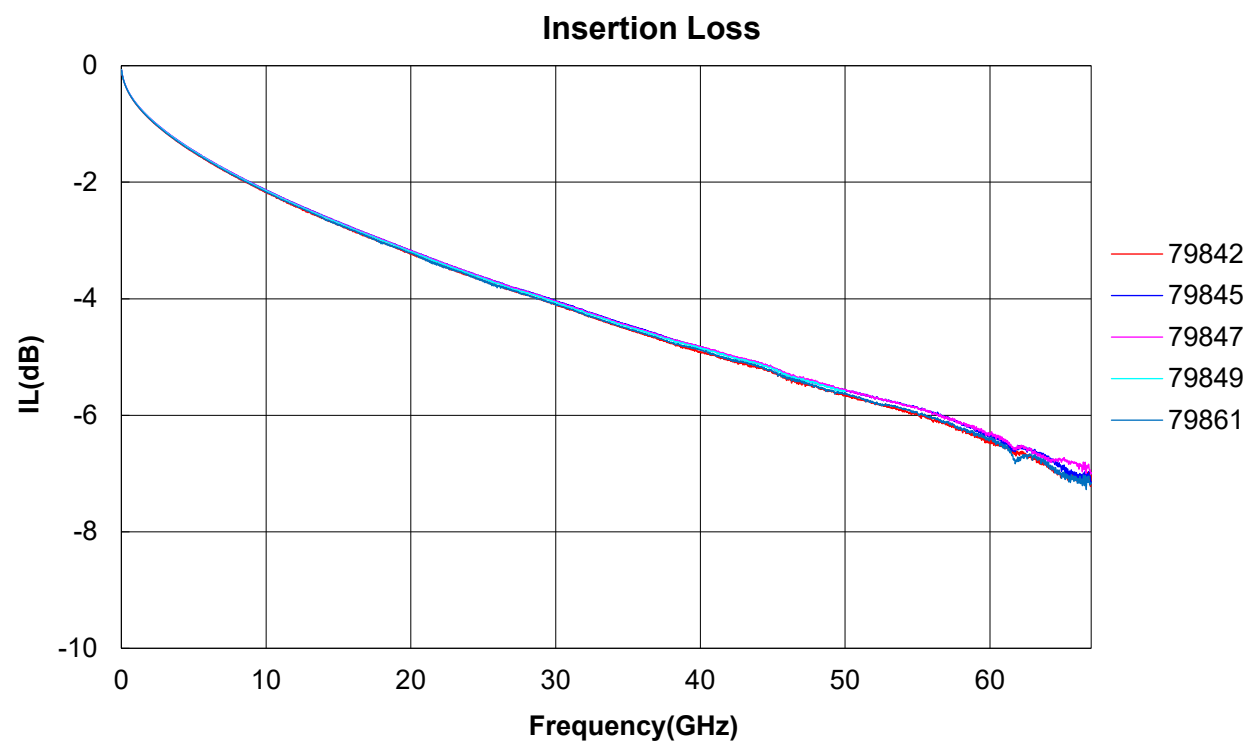
Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

Results: RF086-M0SJ-M0SJ-1000

Description: RF086 High Frequency RF Cable Assembly					
Sample	VSWR (max) DC to 50 GHz	VSWR (max) 50 to 67 GHz	RL (max) DC to 50 GHz	RL (max) 50 to 67 GHz	IL(min) DC to 67 GHz
79842	1.21 @ 45.95GHz	1.35 @ 63.71GHz	-20.47dB@ 45.95GHz	-16.57dB@ 63.71GHz	-7.22dB@ 66.95GHz
79845	1.28 @ 46.70GHz	1.41 @ 64.84GHz	-18.21dB@ 46.70GHz	-15.37dB@ 64.84GHz	-7.17dB@ 66.53GHz
79847	1.21 @ 46.58GHz	1.30 @ 66.38GHz	-20.50dB@ 46.58GHz	-17.80dB@ 66.38GHz	-7.01dB@ 66.98GHz
79849	1.22 @ 24.47GHz	1.38 @ 64.83GHz	-20.21dB@ 24.47GHz	-16.03dB@ 64.83GHz	-7.13dB@ 66.97GHz
79861	1.24 @ 49.29GHz	1.42 @ 64.85GHz	-19.50dB@ 49.29GHz	-15.21dB@ 64.85GHz	-7.28dB@ 66.66GHz

VSWR



Series: RF086**Description:** 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options**Return Loss****Insertion Loss**

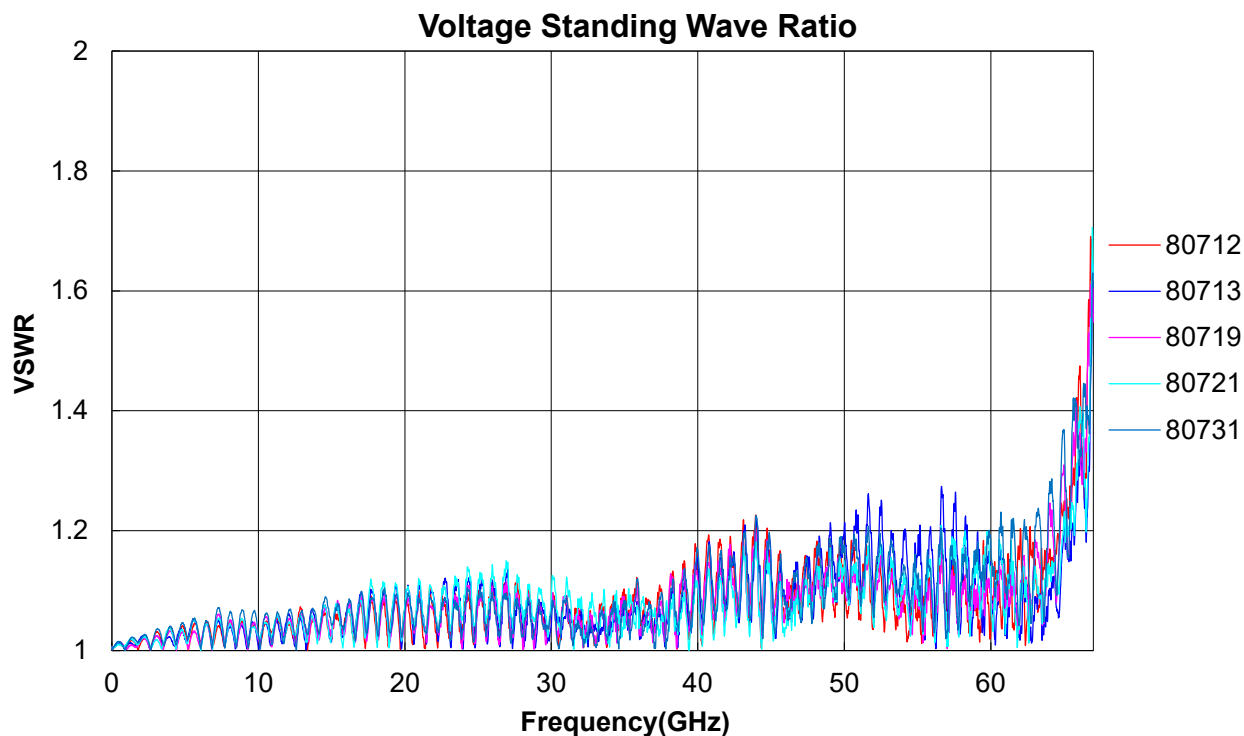
Series: RF086

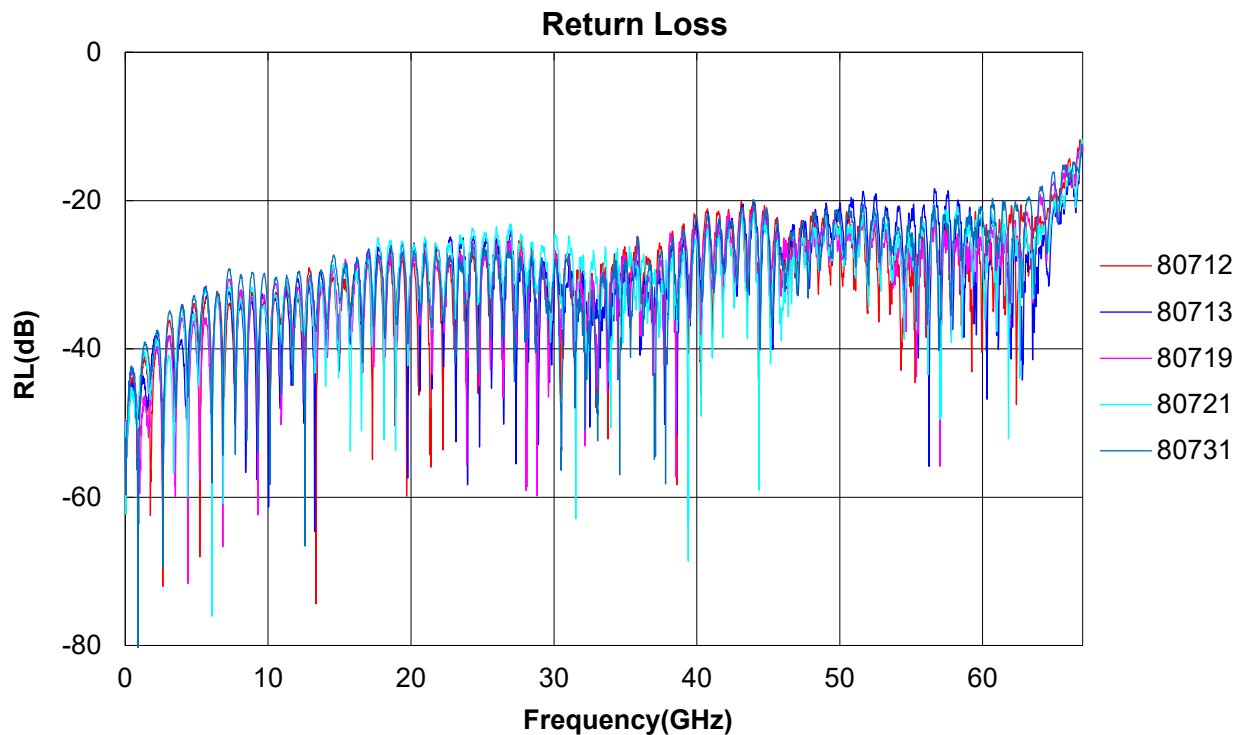
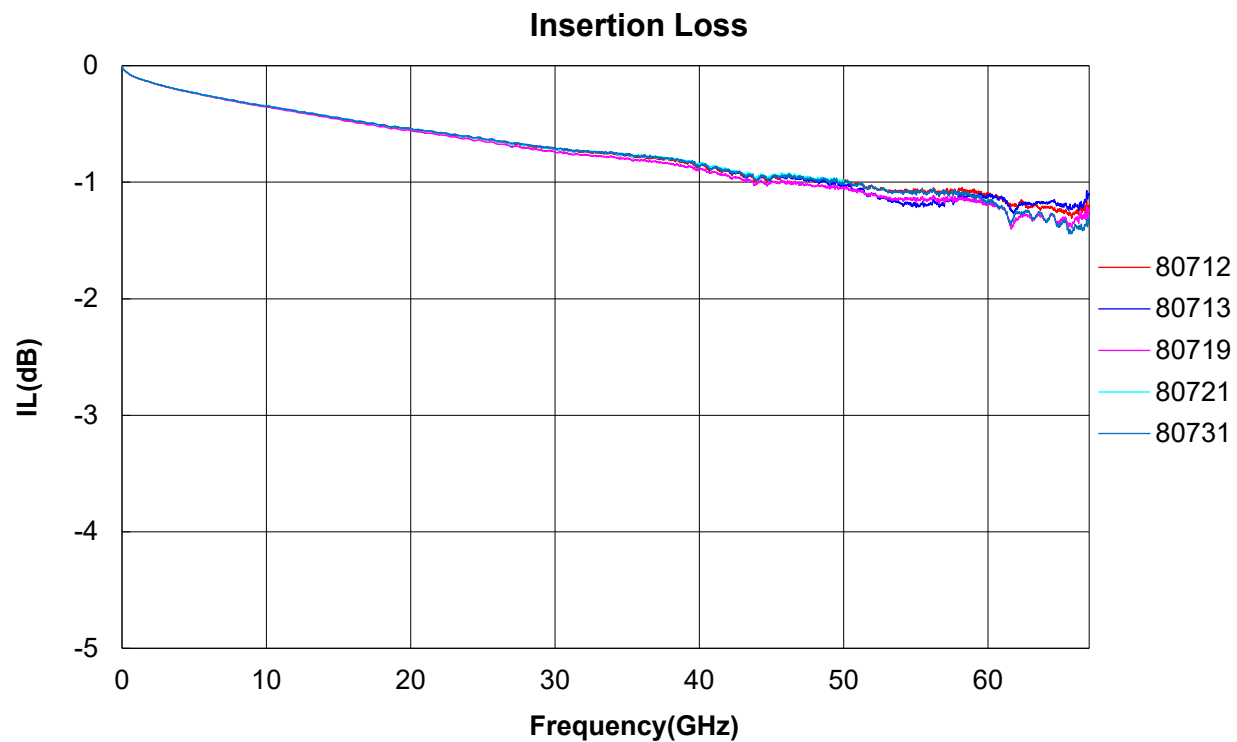
Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

Results: RF086-M0SP-M0SP-0152

Description: RF086 High Frequency RF Cable Assembly					
Sample	VSWR (max) DC to 50 GHz	VSWR (max) 50 to 67 GHz	RL (max) DC to 50 GHz	RL (max) 50 to 67 GHz	IL(min) DC to 67 GHz
80712	1.23 @ 43.95GHz	1.69 @ 66.82GHz	-19.86dB@ 43.95 GHz	-11.81dB@ 66.82GHz	-1.31dB@ 65.78GHz
80713	1.22 @ 43.98GHz	1.65 @ 66.94GHz	-20.19dB@ 43.98GHz	-12.24dB@ 66.94GHz	-1.27dB@ 61.81GHz
80719	1.20 @ 43.94GHz	1.65 @ 66.93GHz	-20.76dB@ 43.94GHz	-12.20dB@ 66.93GHz	-1.40dB@ 61.61GHz
80721	1.18 @ 43.97GHz	1.71 @ 66.94GHz	-21.59dB@ 43.97GHz	-11.67dB@ 66.94GHz	-1.32dB@ 66.27GHz
80731	1.23 @ 43.97GHz	1.63 @ 66.96GHz	-19.89dB@ 43.97GHz	-12.41dB@ 66.96 GHz	-1.44dB@ 65.72GHz

VSWR



Series: RF086**Description:** 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End OptionsReturn LossInsertion Loss

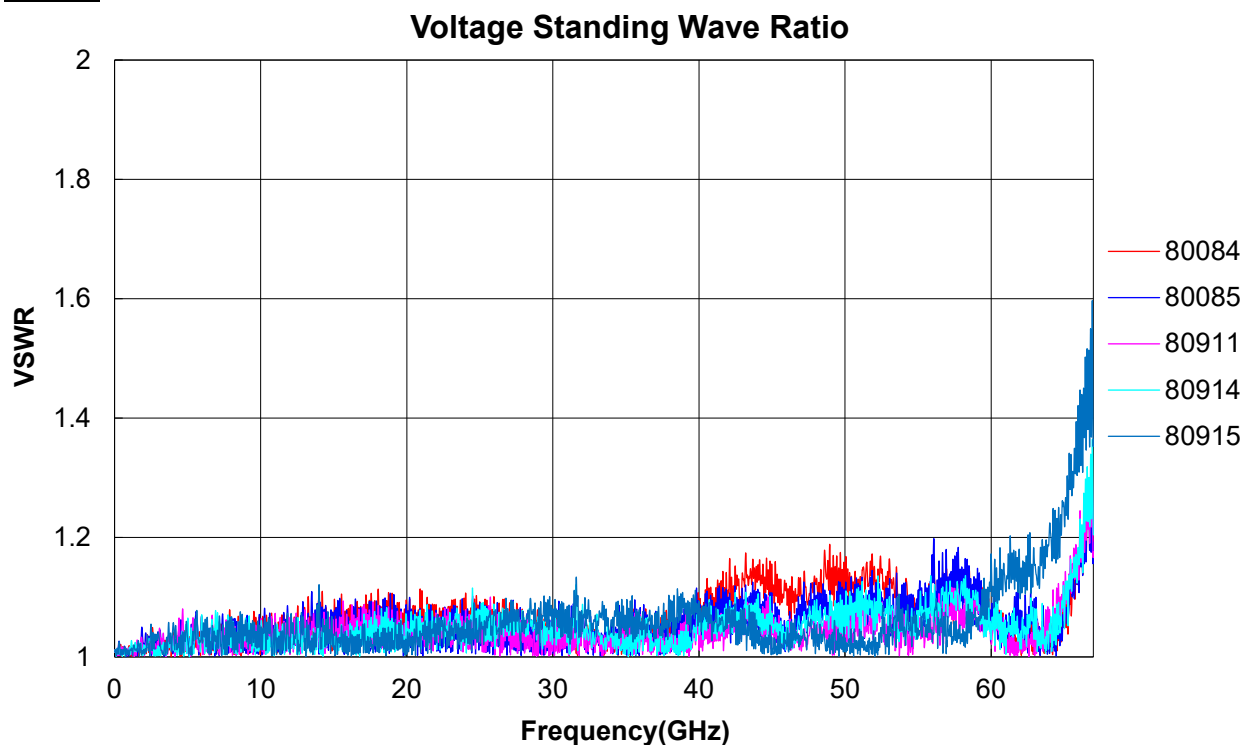
Series: RF086

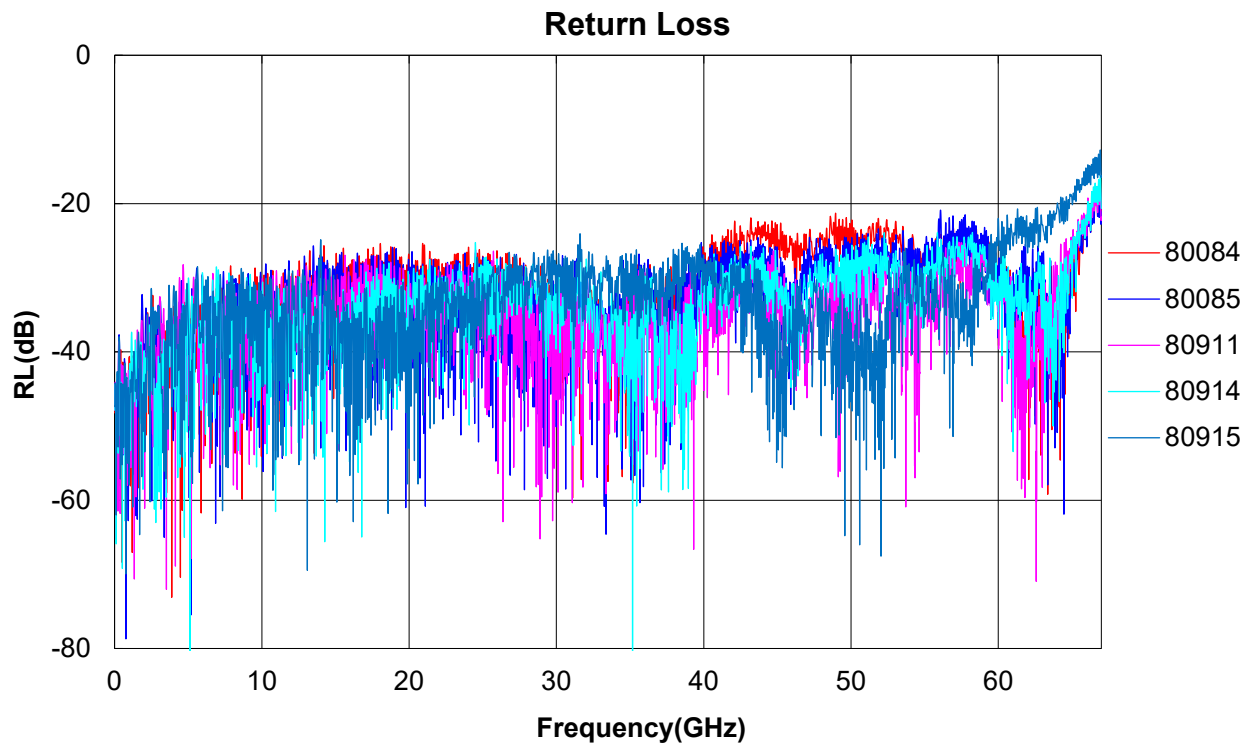
Description: 50 Ohm, .086" low-loss flexible RF Microwave Cable Assy, SMPM End Options

Results: RF086-M0SP-M0SP-1000

Description: RF086 High Frequency RF Cable Assembly					
Sample	VSWR (max) DC to 50 GHz	VSWR (max) 50 to 67 GHz	RL (max) DC to 50 GHz	RL (max) 50 to 67 GHz	IL(min) DC to 67 GHz
80084	1.19 @ 48.96GHz	1.33 @ 66.93GHz	-21.29dB@ 48.96 GHz	-17.02dB@ 66.93GHz	-6.98dB@ 66.89GHz
80085	1.13 @ 49.57GHz	1.31 @ 66.92GHz	-24.52dB@ 49.57GHz	-17.34dB@ 66.92GHz	-6.88dB@ 66.98GHz
80911	1.10 @ 24.51GHz	1.32 @ 66.92GHz	-26.25dB@ 24.51GHz	-17.15dB@ 66.92GHz	-6.72dB@ 66.93GHz
80914	1.12 @ 31.59GHz	1.36 @ 66.93GHz	-24.87dB@ 31.59GHz	-16.23dB@ 66.93GHz	-7.00dB@ 66.78GHz
80915	1.13 @ 31.61GHz	1.60 @ 66.93GHz	-24.06dB@ 31.61GHz	-12.77dB@ 66.93GHz	-6.67dB@ 66.16GHz

VSWR



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