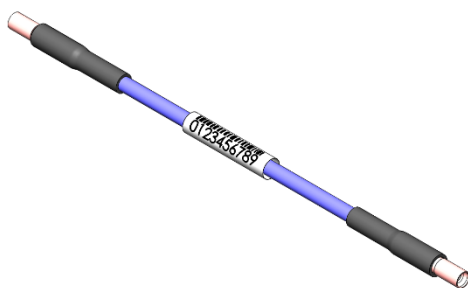


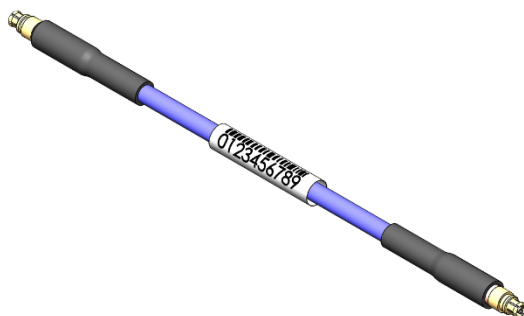


RF Characterization Report

RF23C-M0SP-M0SP-XXXX



RF23C-M0SJ-M0SJ-XXXX



Test Date: May 2021

Description:
High Performance Microwave Cable Assembly,
SMPM Plug and Jack Ends,
23AWG, 50 Ohm, Solid Dielectric, Low Loss, Copper Foil Shield Coax

Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

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Series: RF23C

Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF23C 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	50 GHz
Points	5000
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 Male and Female adapters were used for the measurements of RF23C-M0SP-M0SP-XXXX and RF23C-M0SJ-M0SJ-XXXX. The adapter effects were removed from the measurement using the PNA's Fixture Removal method.

Series: RF23C

Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

RF23C-M0SX-M0SX-XXXX Test Definition

Part Number	End 1	End 2
RF23C-M0SP-M0SP-0152	SMPM Plug, Full Detent	SMPM Plug, Full Detent
RF23C-M0SP-M0SP-1000	SMPM Plug, Full Detent	SMPM Plug, Full Detent
RF23C-M0SJ-M0SJ-0152	SMPM Jack	SMPM Jack
RF23C-M0SJ-M0SJ-1000	SMPM Jack	SMPM Jack

Cable Under Test:



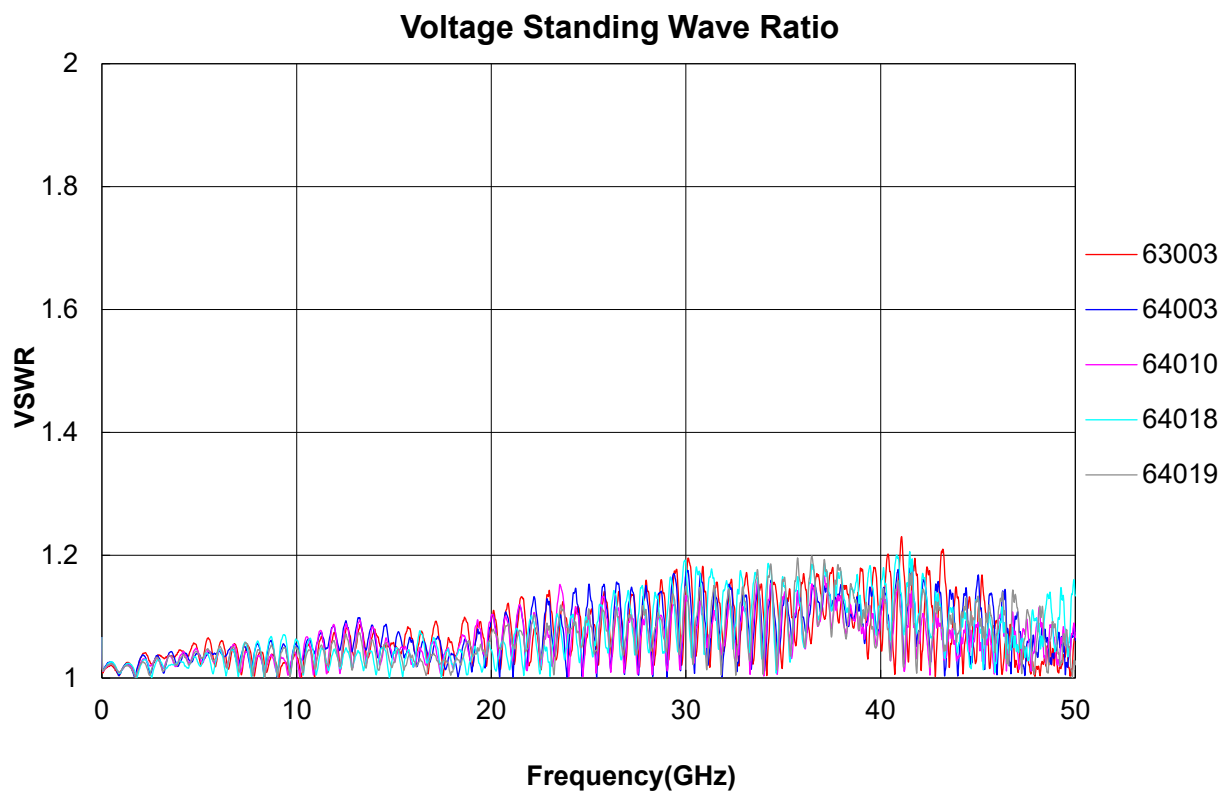
Series: RF23C

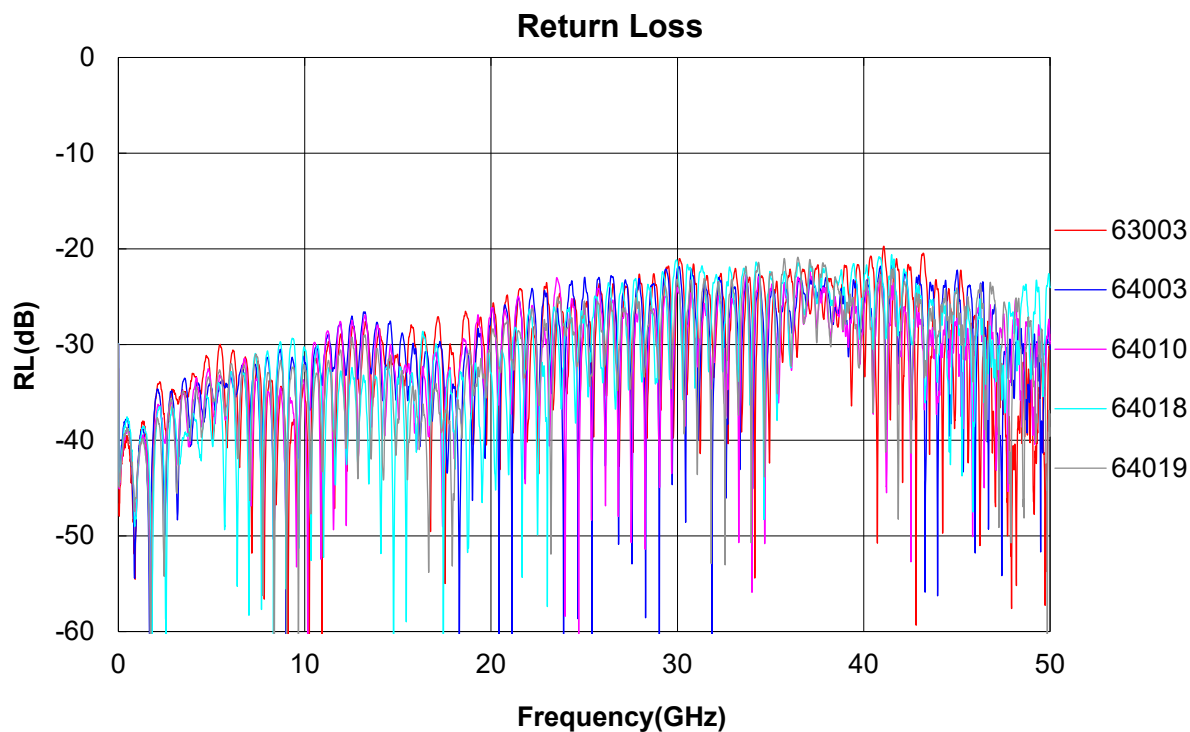
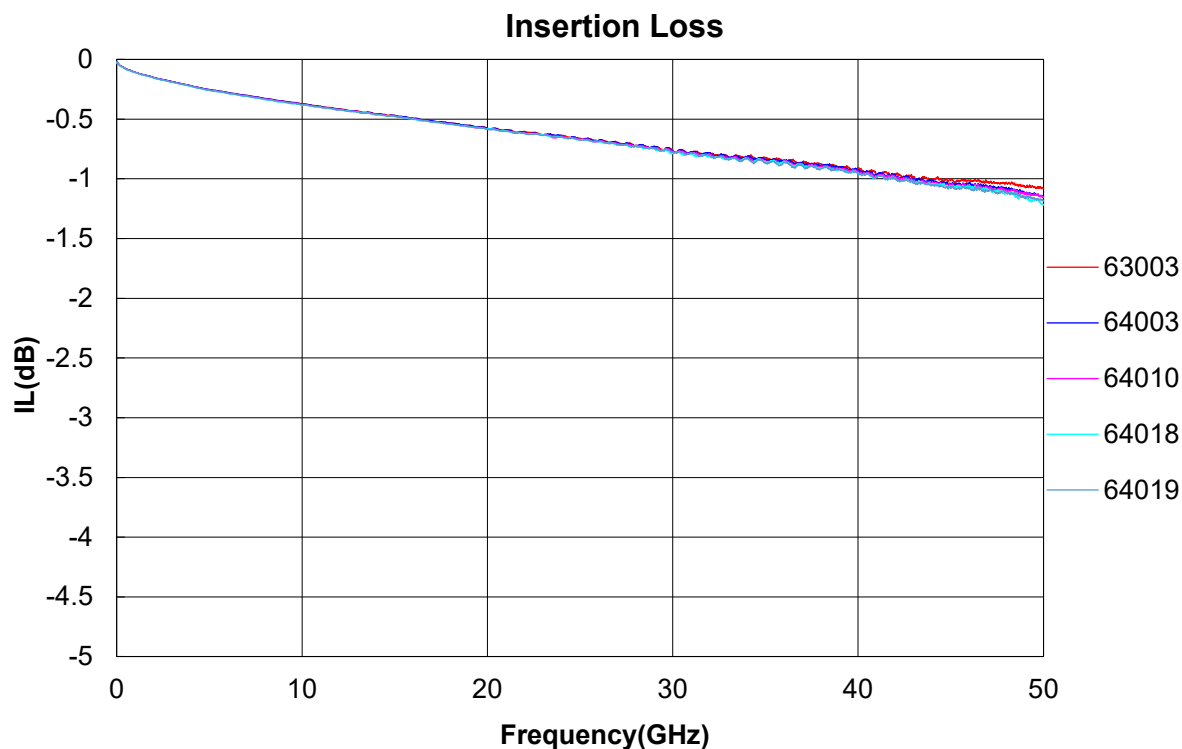
Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

Results: RF23C-M0SP-M0SP-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
63003	1.23 @ 41.08 GHz	-19.73 @ 41.08 GHz	-1.08 dB @ 49.60 GHz
64003	1.19 @ 41.61 GHz	-21.29 @ 41.61 GHz	-1.15 dB @ 49.97 GHz
64010	1.17 @ 37.10 GHz	-22.30 @ 37.10 GHz	-1.16 dB @ 49.97 GHz
64018	1.21 @ 41.50 GHz	-20.60 @ 41.50 GHz	-1.22 dB @ 49.99 GHz
64019	1.20 @ 36.46 GHz	-20.87 @ 36.46 GHz	-1.19 dB @ 49.97 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMPM Plug and Jack EndsReturn LossInsertion Loss

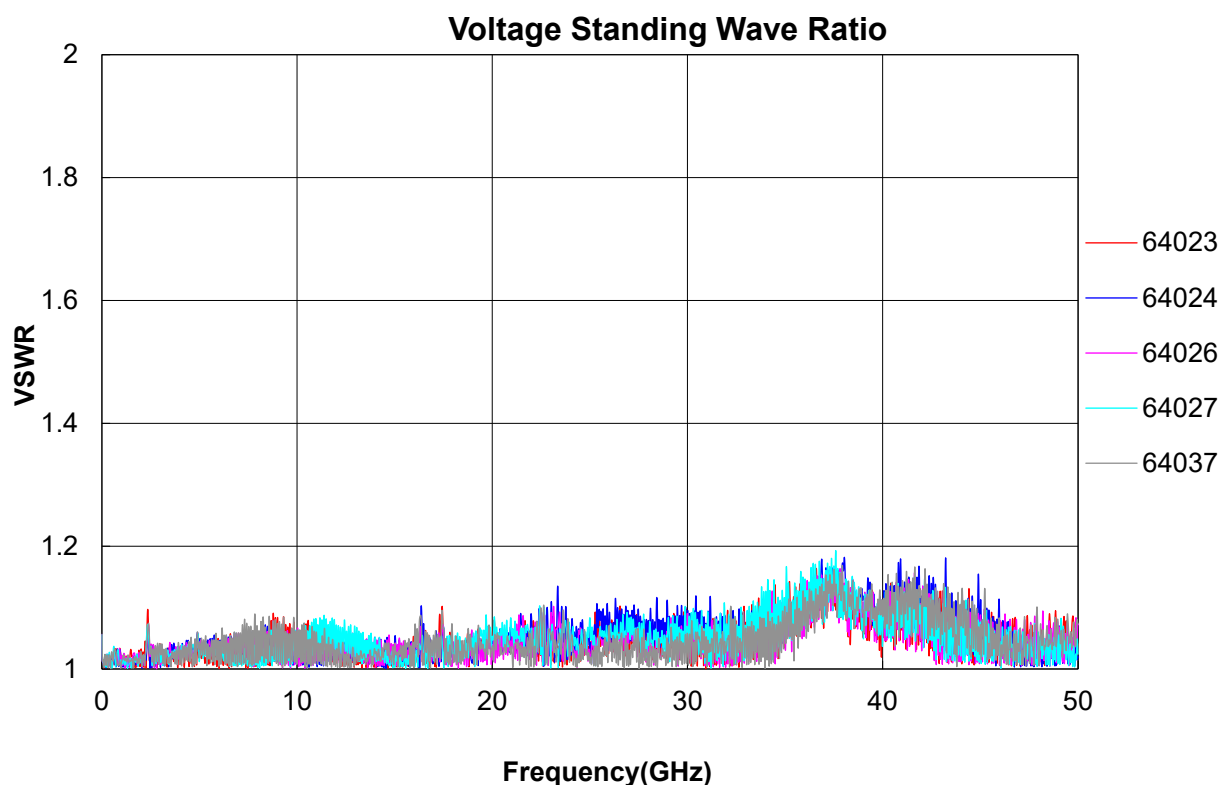
Series: RF23C

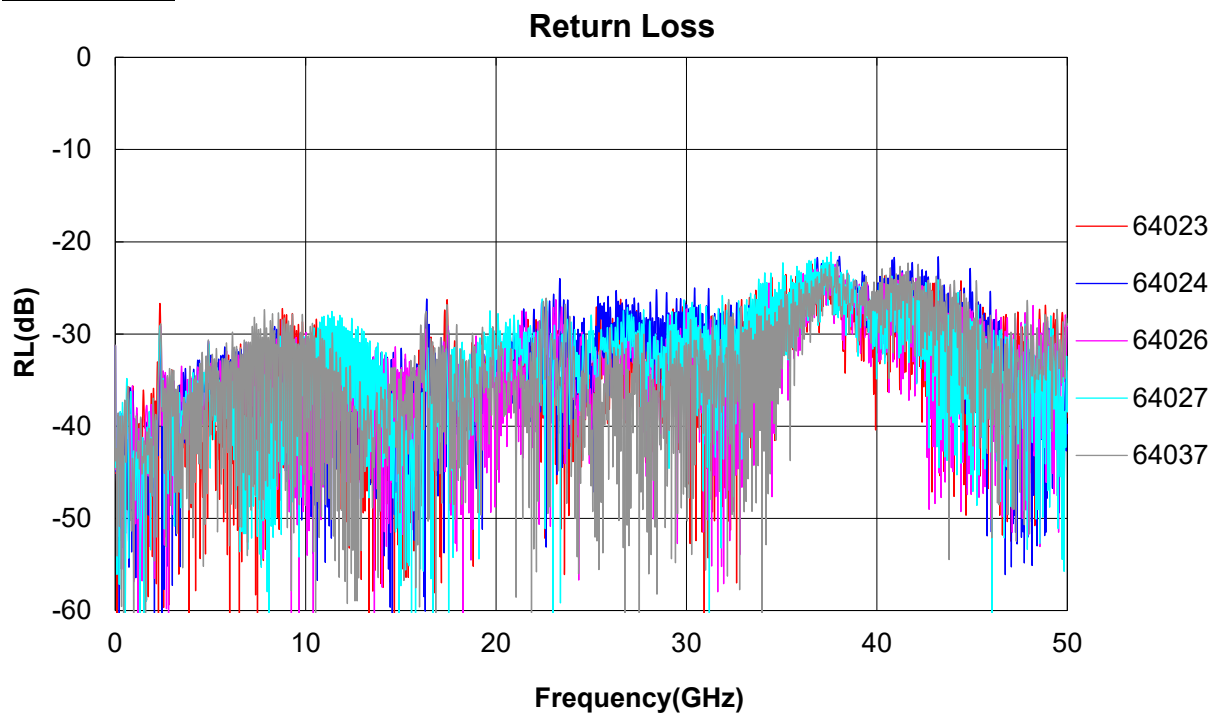
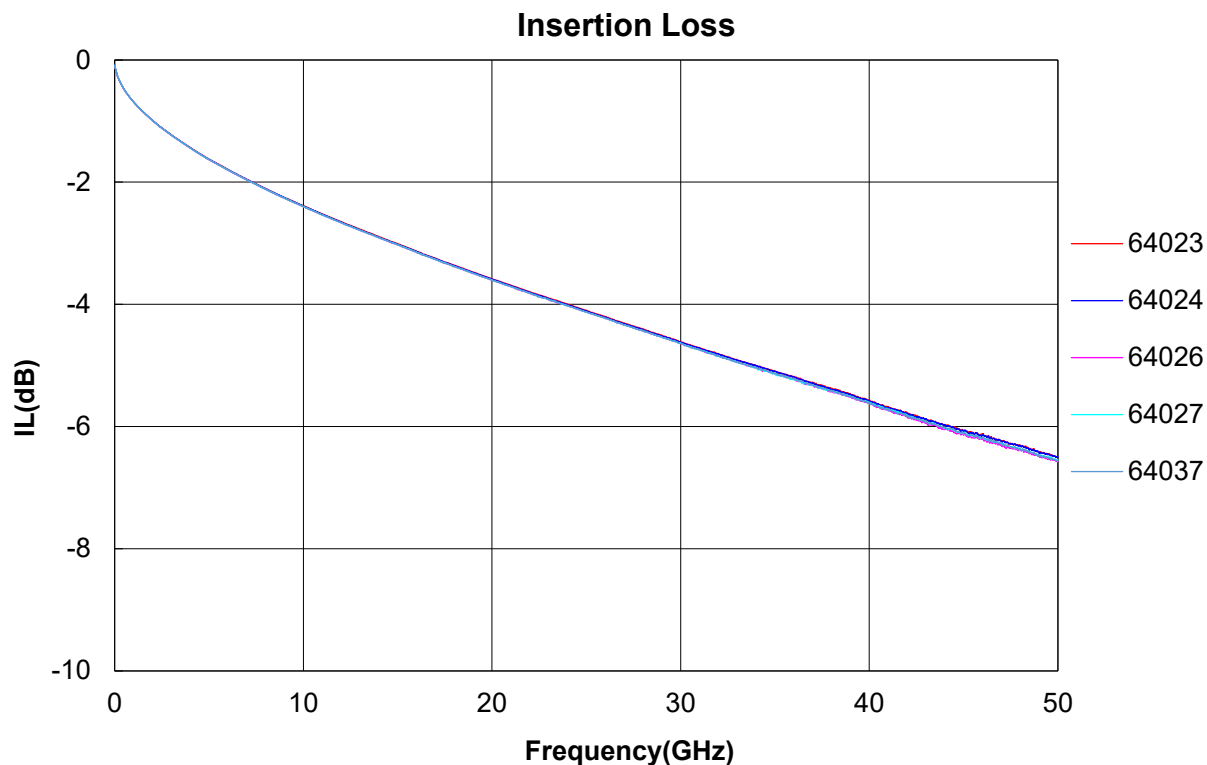
Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

Results: RF23C-M0SP-M0SP-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
64023	1.16 @ 36.59 GHz	-22.43 @ 36.59 GHz	-6.50 dB @ 49.98 GHz
64024	1.18 @ 38.03 GHz	-21.58 @ 38.03 GHz	-6.51 dB @ 49.97 GHz
64026	1.16 @ 37.81 GHz	-22.44 @ 37.81 GHz	-6.58 dB @ 49.99 GHz
64027	1.19 @ 37.59 GHz	-21.12 @ 37.59 GHz	-6.55 dB @ 49.99 GHz
64037	1.17 @ 37.93 GHz	-22.18 @ 37.93 GHz	-6.57 dB @ 49.99 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMPM Plug and Jack EndsReturn LossInsertion Loss

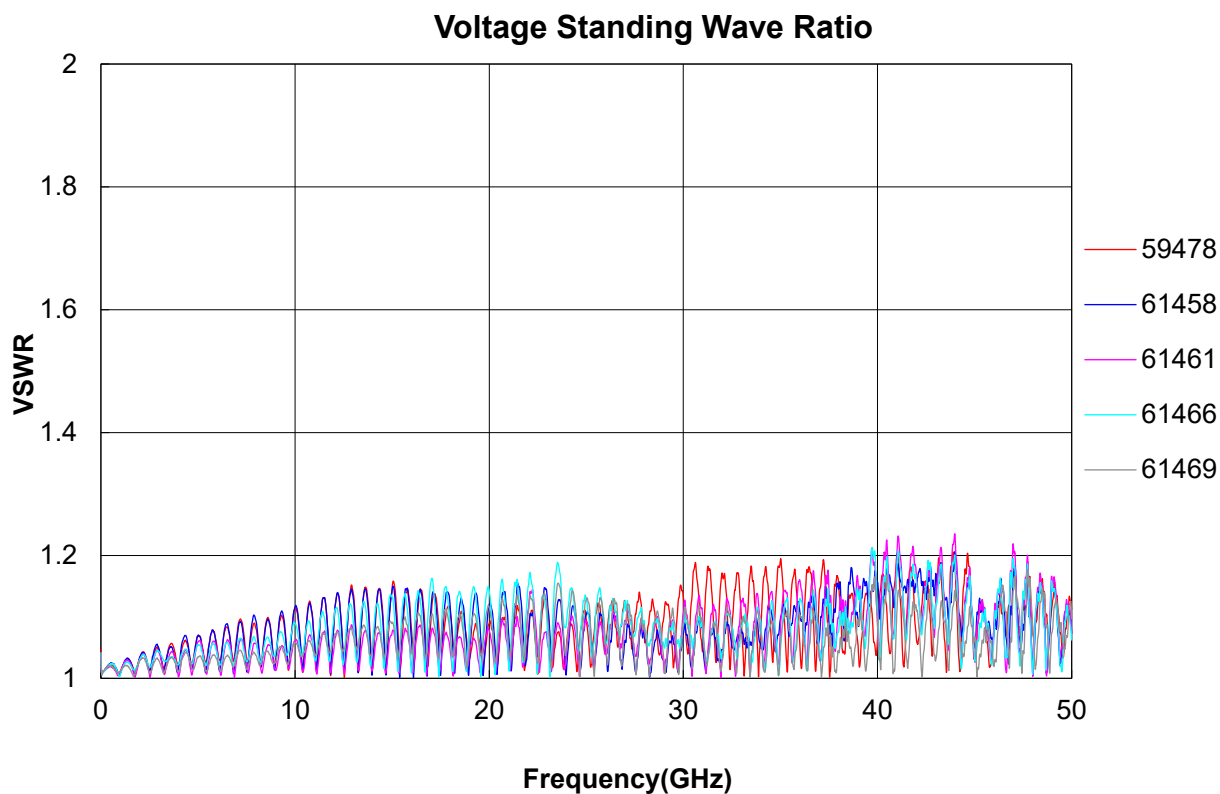
Series: RF23C

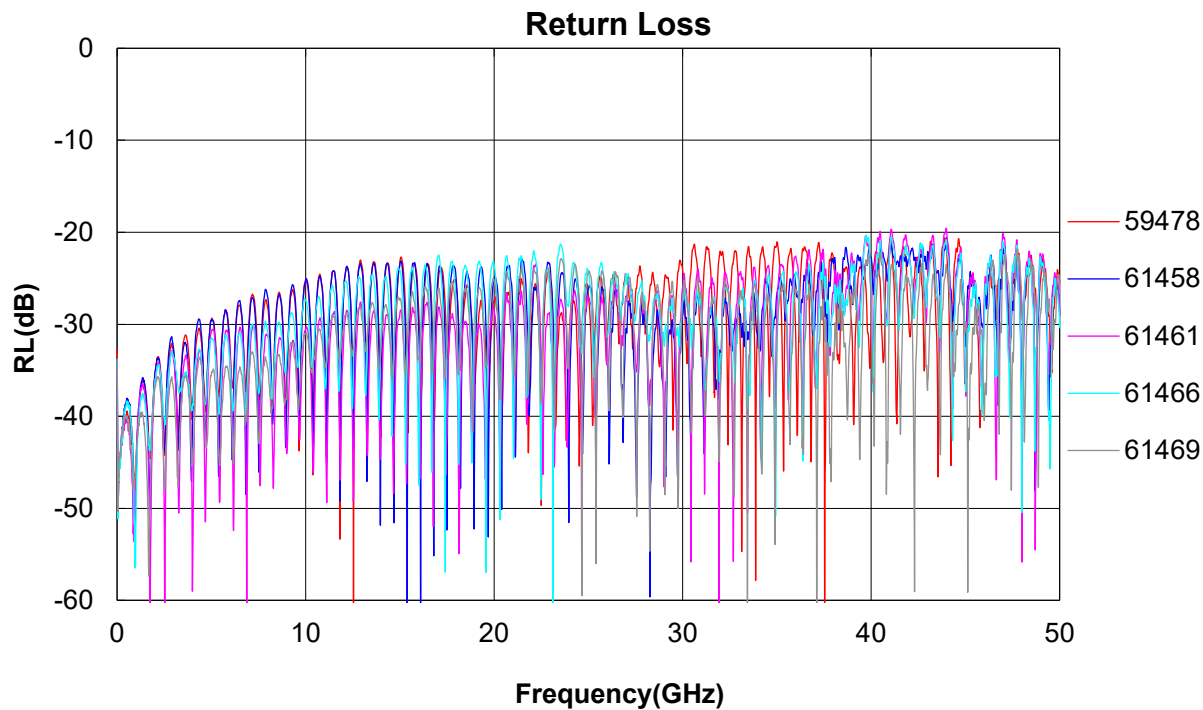
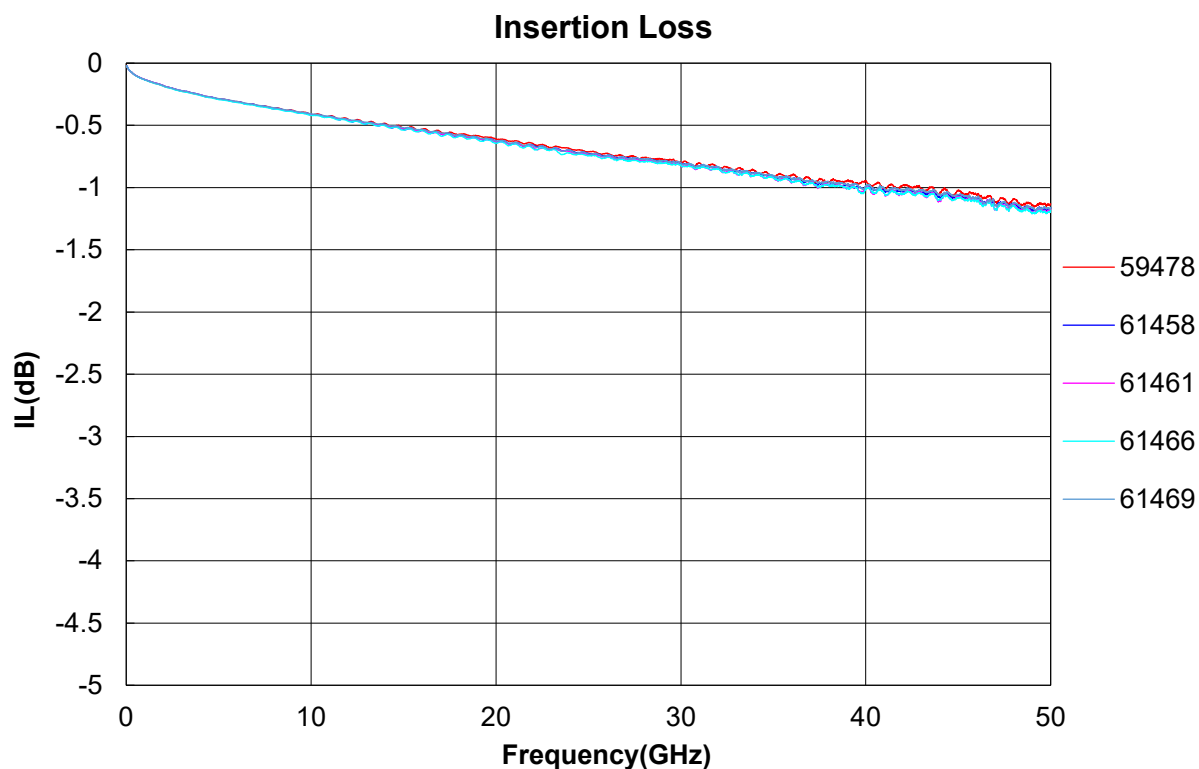
Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

Results: RF23C-M0SJ-M0SJ-0152

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
59478	1.21 @ 43.88 GHz	-20.60 @ 43.88 GHz	-1.16 dB @ 49.10 GHz
61458	1.21 @ 43.99 GHz	-20.58 @ 43.99 GHz	-1.19 dB @ 49.76 GHz
61461	1.24 @ 43.98 GHz	-19.55 @ 43.98 GHz	-1.21 dB @ 48.99 GHz
61466	1.21 @ 39.72 GHz	-20.33 @ 39.72 GHz	-1.21 dB @ 48.99 GHz
61469	1.18 @ 47.73 GHz	-21.79 @ 47.73 GHz	-1.18 dB @ 49.20 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMPM Plug and Jack EndsReturn LossInsertion Loss

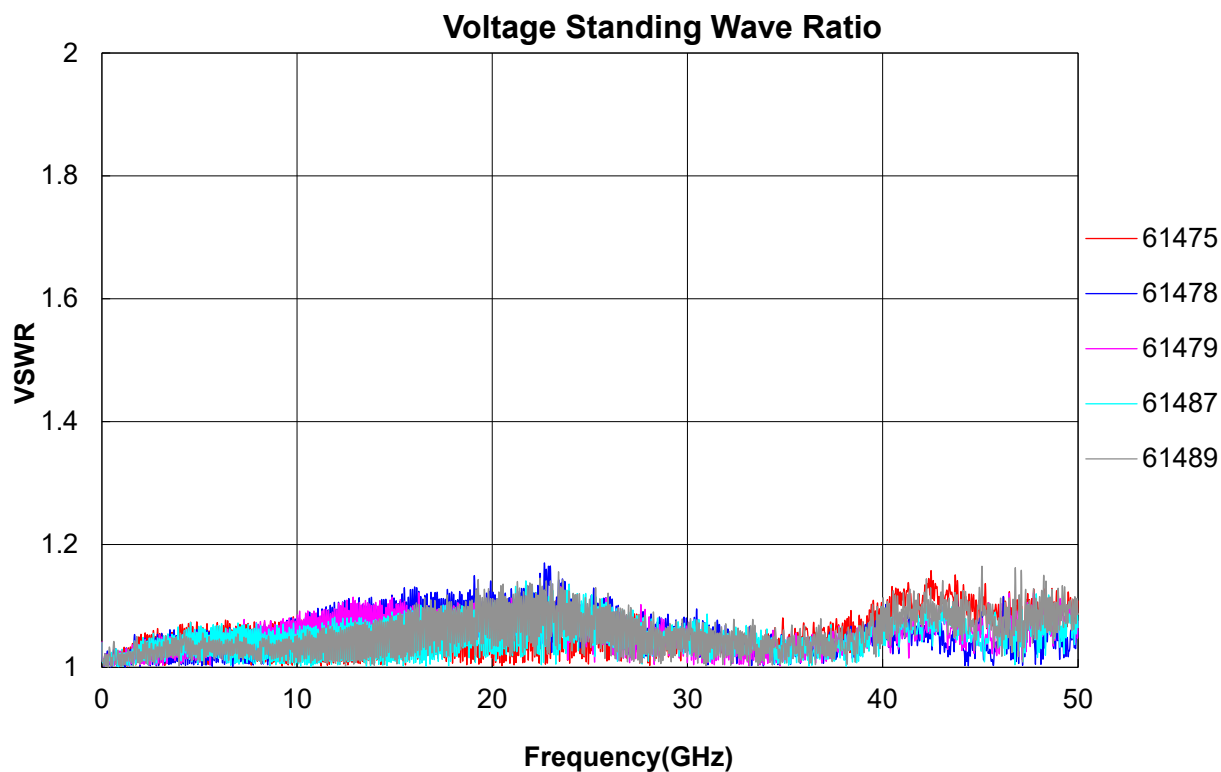
Series: RF23C

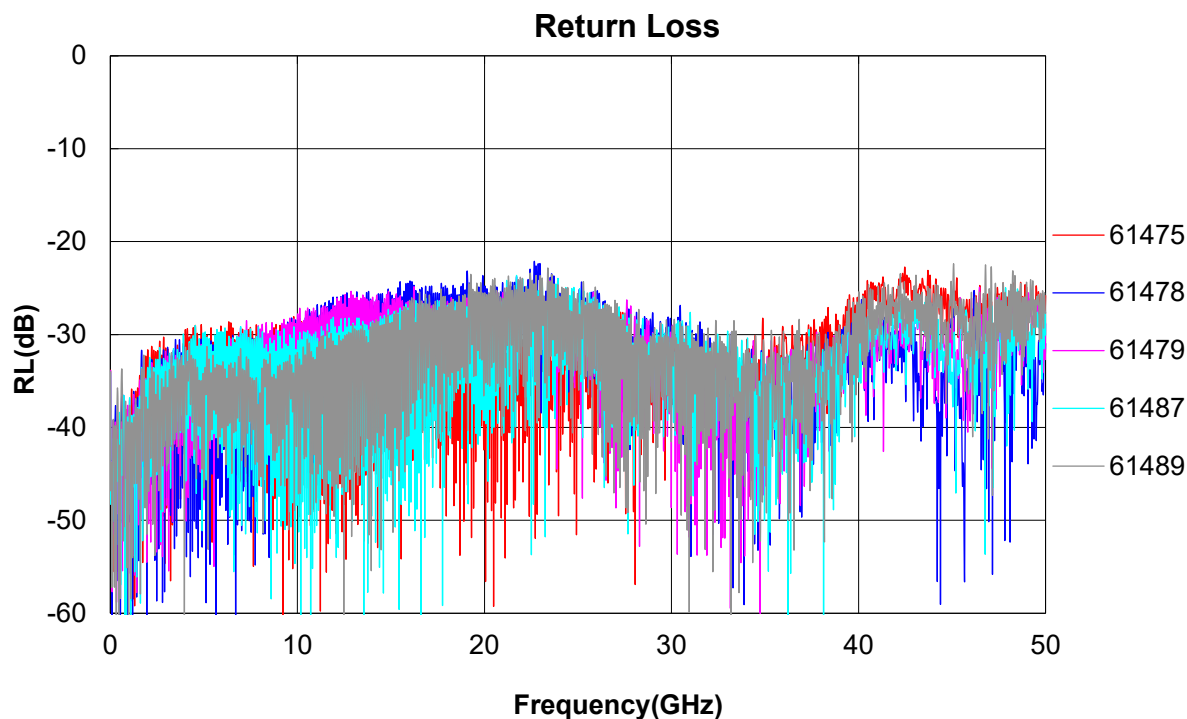
Description: High Performance Microwave Cable Assembly, SMPM Plug and Jack Ends

Results: RF23C-M0SJ-M0SJ-1000

Description: RF047-A High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
61475	1.16 @ 42.47 GHz	-22.73 @ 42.47 GHz	-6.57 dB @ 49.93 GHz
61478	1.17 @ 22.67 GHz	-22.12 @ 22.67 GHz	-6.55 dB @ 49.93 GHz
61479	1.13 @ 23.50 GHz	-24.20 @ 23.50 GHz	-6.59 dB @ 49.94 GHz
61487	1.14 @ 21.72 GHz	-23.64 @ 21.72 GHz	-6.51 dB @ 49.94 GHz
61489	1.16 @ 45.08 GHz	-22.38 @ 45.08 GHz	-6.58 dB @ 49.94 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMPM Plug and Jack EndsReturn LossInsertion Loss