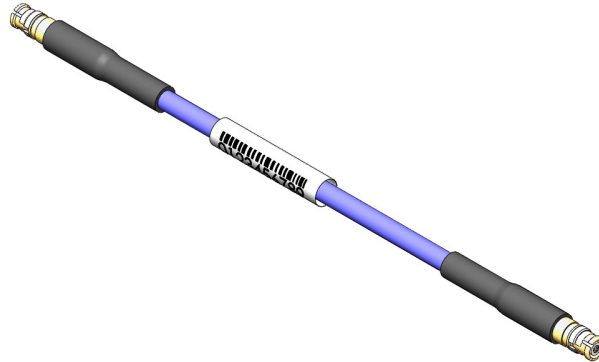


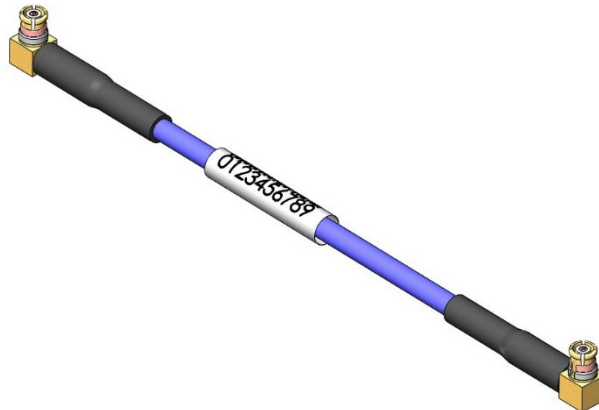


RF Characterization Report

RF23C-00SJ-00SJ-XXXX



RF23C-00MJ-00MJ-XXXX



Test Date: Sep 2023

Description:

**High Performance Microwave Cable Assembly, SMP Jack End,
23AWG, 50 Ohm, Solid Dielectric, Low Loss, Copper Foil Shield Coax**

Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack End

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories for RF23C-00SJ-00SJ-XXXX measurement: ...	1
Instrument Setup & Test Accessories for RF23C-00MJ-00MJ-XXXX measurement: ..	1
Calibration Type:.....	1
Adapter Use:.....	1
RF23C-00XX-00XX-XXXX Test Definition	2
Cable Under Test:.....	2
Results: RF23C-00SJ-00SJ-0152.....	3
VSWR	3
Return Loss.....	4
Insertion Loss.....	4
Results: RF23C-00SJ-00SJ-1000.....	5
VSWR	5
Return Loss.....	6
Insertion Loss.....	6
Results: RF23C-00MJ-00MJ-0152	7
VSWR	7
Return Loss.....	8
Insertion Loss.....	8
Results: RF23C-00MJ-00MJ-1000	9
VSWR	9
Return Loss.....	10
Insertion Loss.....	10

Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack End

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF23C cable assembly with SMP jack connector end options.

Instrument Setup & Test Accessories for RF23C-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 RF23C-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.

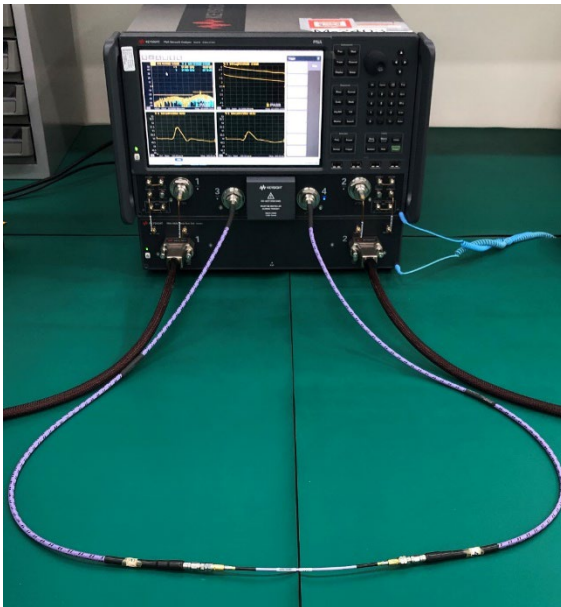
Calibration Kit	Keysight 85056A Mechanical Calibration Kit
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Adapter Use:

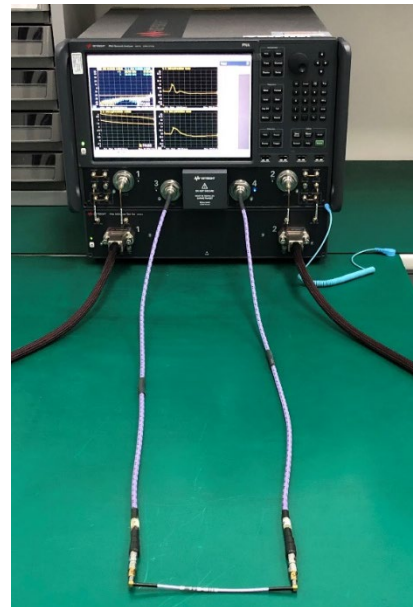
MADP-5478 adapter was used for the measurements. The adapter effects were removed from the measurement using Keysight AFR in PLTS.

Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack End**RF23C-00XX-00XX-XXXX Test Definition**

Part Number	End 1	End 2
RF23C-00SJ-00SJ-XXXX	SMP Jack	SMP Jack
RF23C-00MJ-00MJ-XXXX	SMP R/A Jack	SMP R/A Jack

Cable Under Test:

RF23C-00SJ-00SJ-XXXX



RF23C-00MJ-00MJ-XXXX

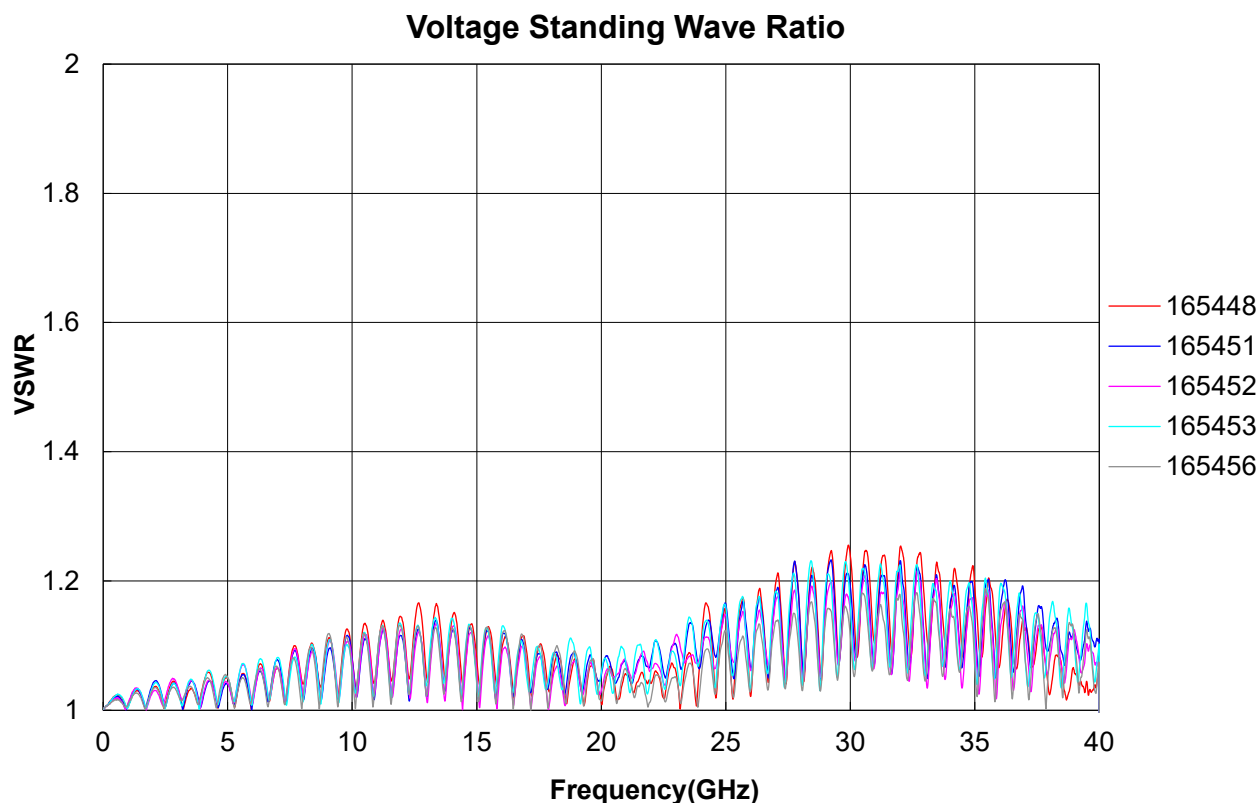
Series: RF23C

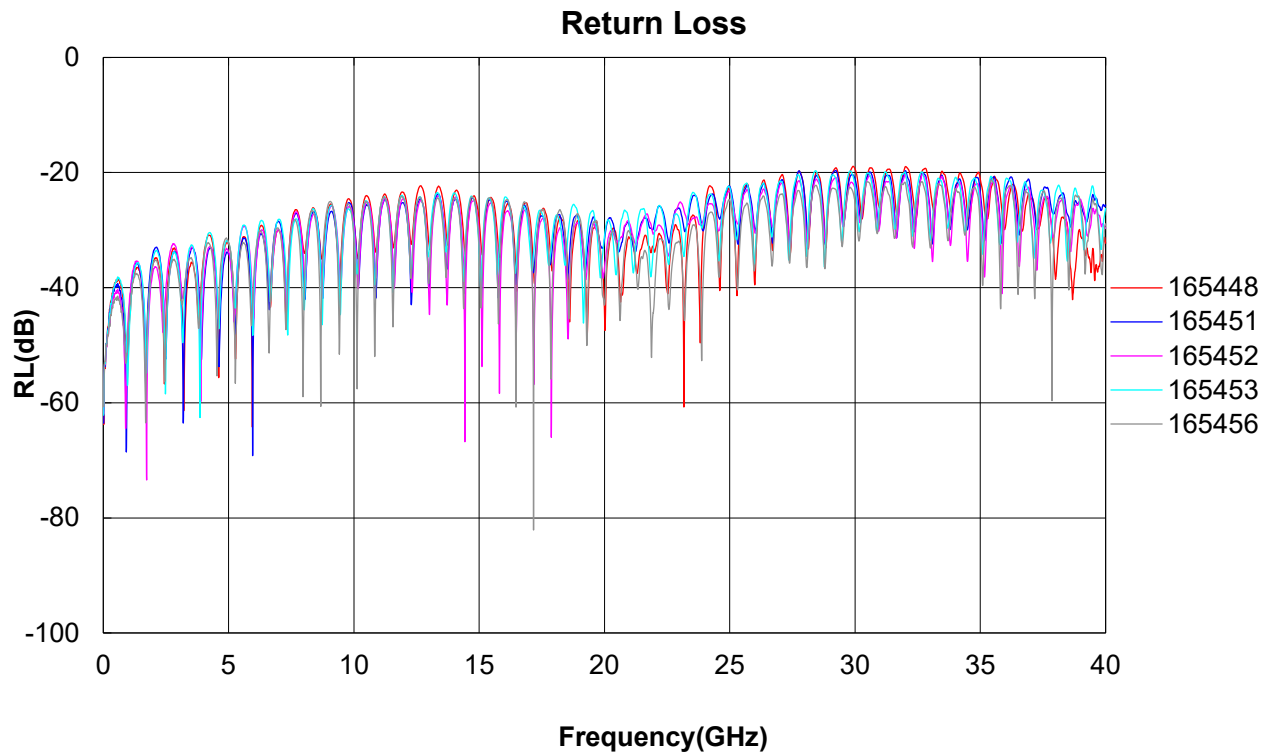
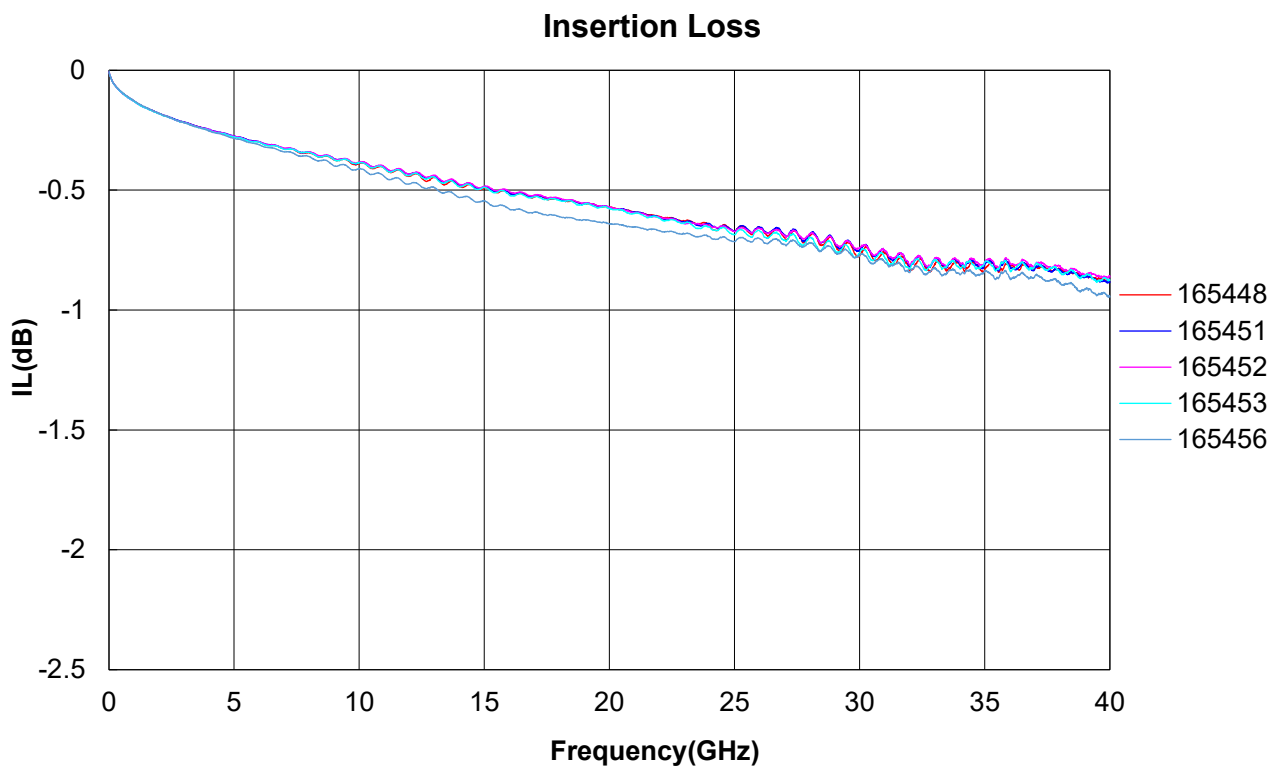
Description: High Performance Microwave Cable Assembly, SMP Jack End

Results: RF23C-00SJ-00SJ-0152

Description: RF23C 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)
165448	1.19 @ 26.36 GHz	1.26 @ 29.93 GHz	-21.29 @ 26.36 GHz	-18.92 @ 29.93 GHz	-0.69 @ 26.34 GHz	-0.88 @ 39.88 GHz
165451	1.18 @ 26.36 GHz	1.23 @ 29.24 GHz	-21.88 @ 26.36 GHz	-19.64 @ 29.24 GHz	-0.68 @ 26.34 GHz	-0.89 @ 39.92 GHz
165452	1.16 @ 26.36 GHz	1.22 @ 32.69 GHz	-22.85 @ 26.36 GHz	-20.24 @ 32.69 GHz	-0.68 @ 26.34 GHz	-0.87 @ 39.88 GHz
165453	1.18 @ 26.33 GHz	1.23 @ 28.42 GHz	-21.83 @ 26.33 GHz	-19.68 @ 28.42 GHz	-0.70 @ 26.31 GHz	-0.88 @ 39.47 GHz
165456	1.13 @ 26.33 GHz	1.19 @ 35.43 GHz	-24.07 @ 26.33 GHz	-21.29 @ 35.43 GHz	-0.72 @ 26.31 GHz	-0.95 @ 39.94 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack EndReturn LossInsertion Loss

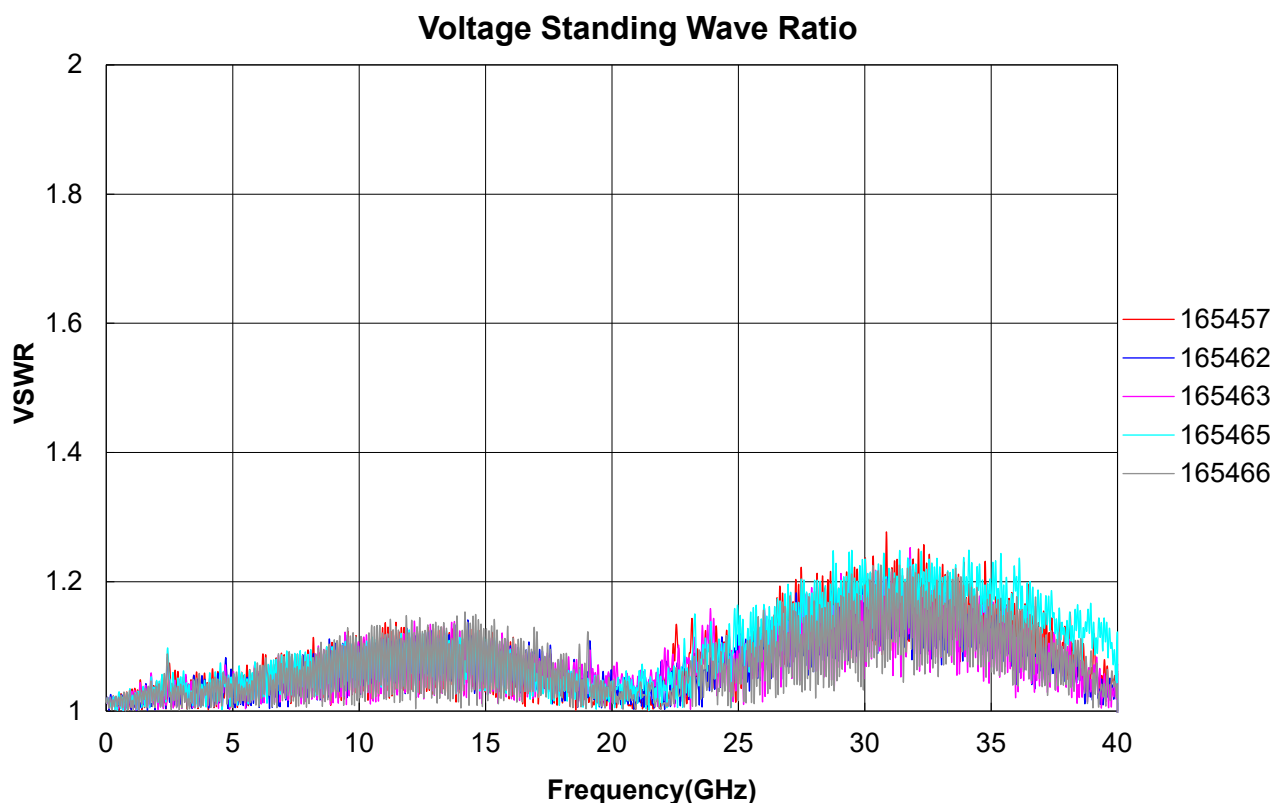
Series: RF23C

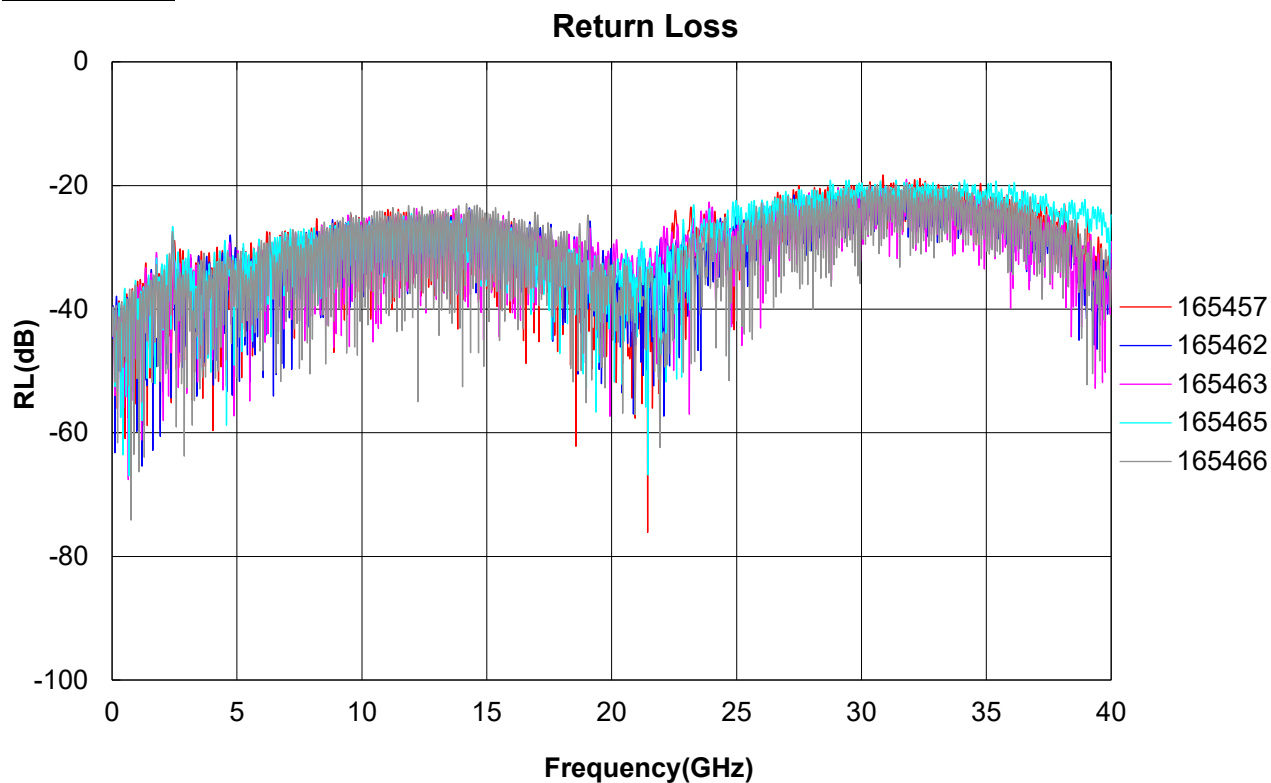
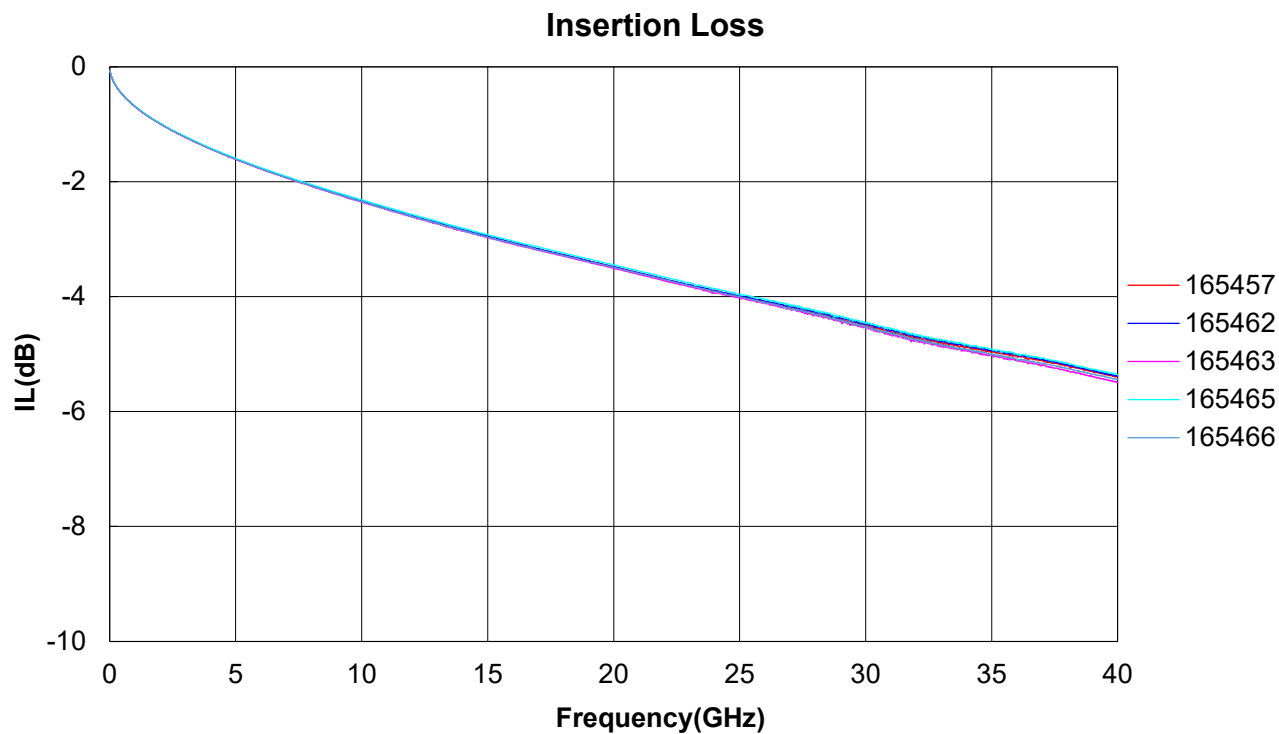
Description: High Performance Microwave Cable Assembly, SMP Jack End

Results: RF23C-00SJ-00SJ-1000

Description: RF23C 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)
165457	1.15 @ 26.43 GHz	1.28 @ 30.86 GHz	-23.18 @ 26.43 GHz	-18.29 @ 30.86 GHz	-4.14 @ 26.50 GHz	-5.40 @ 40.00 GHz
165462	1.16 @ 26.03 GHz	1.21 @ 30.87 GHz	-22.59 @ 26.03 GHz	-20.53 @ 30.87 GHz	-4.12 @ 26.45 GHz	-5.38 @ 40.00 GHz
165463	1.16 @ 23.90 GHz	1.25 @ 31.80 GHz	-22.67 @ 23.90 GHz	-18.99 @ 31.80 GHz	-4.17 @ 26.50 GHz	-5.50 @ 40.00 GHz
165465	1.16 @ 26.02 GHz	1.25 @ 34.13 GHz	-22.36 @ 26.02 GHz	-19.12 @ 34.13 GHz	-4.10 @ 26.45 GHz	-5.36 @ 40.00 GHz
165466	1.16 @ 26.00 GHz	1.23 @ 30.64 GHz	-22.80 @ 26.00 GHz	-19.87 @ 30.64 GHz	-4.15 @ 26.42 GHz	-5.44 @ 40.00 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack EndReturn LossInsertion Loss

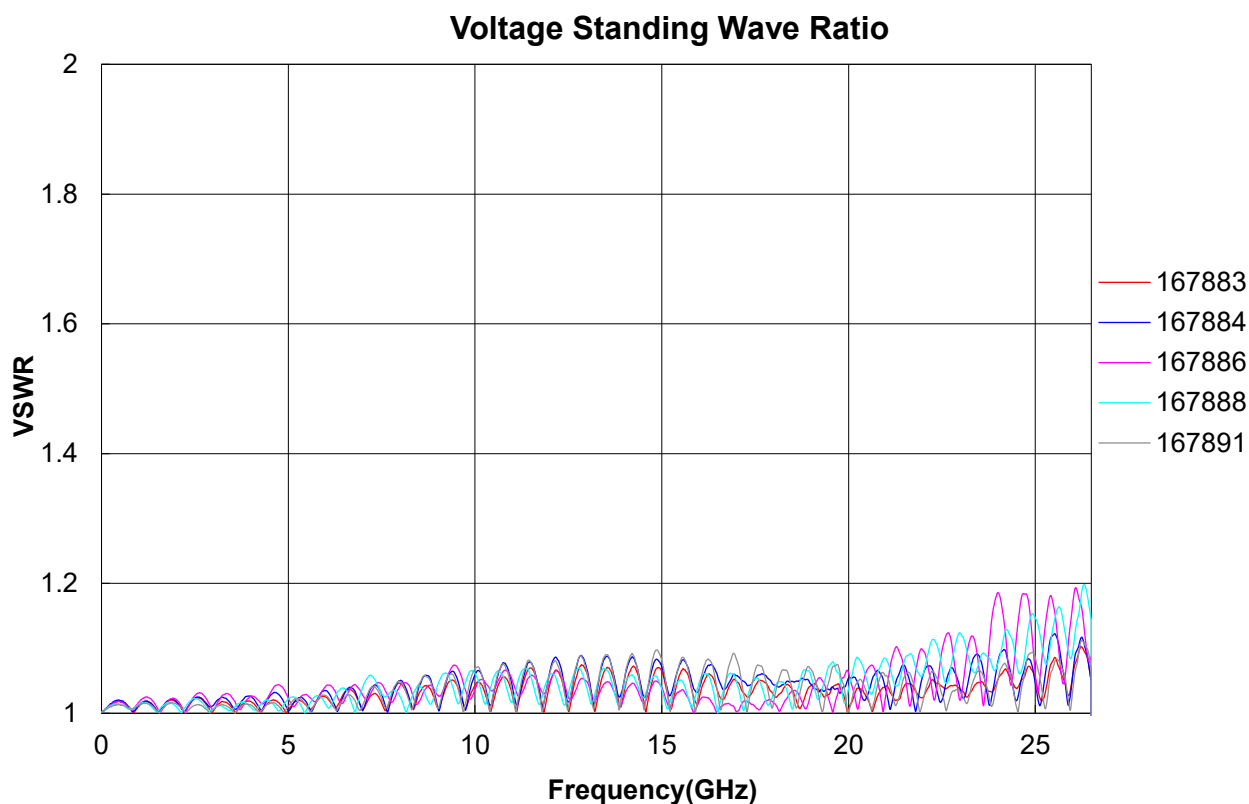
Series: RF23C

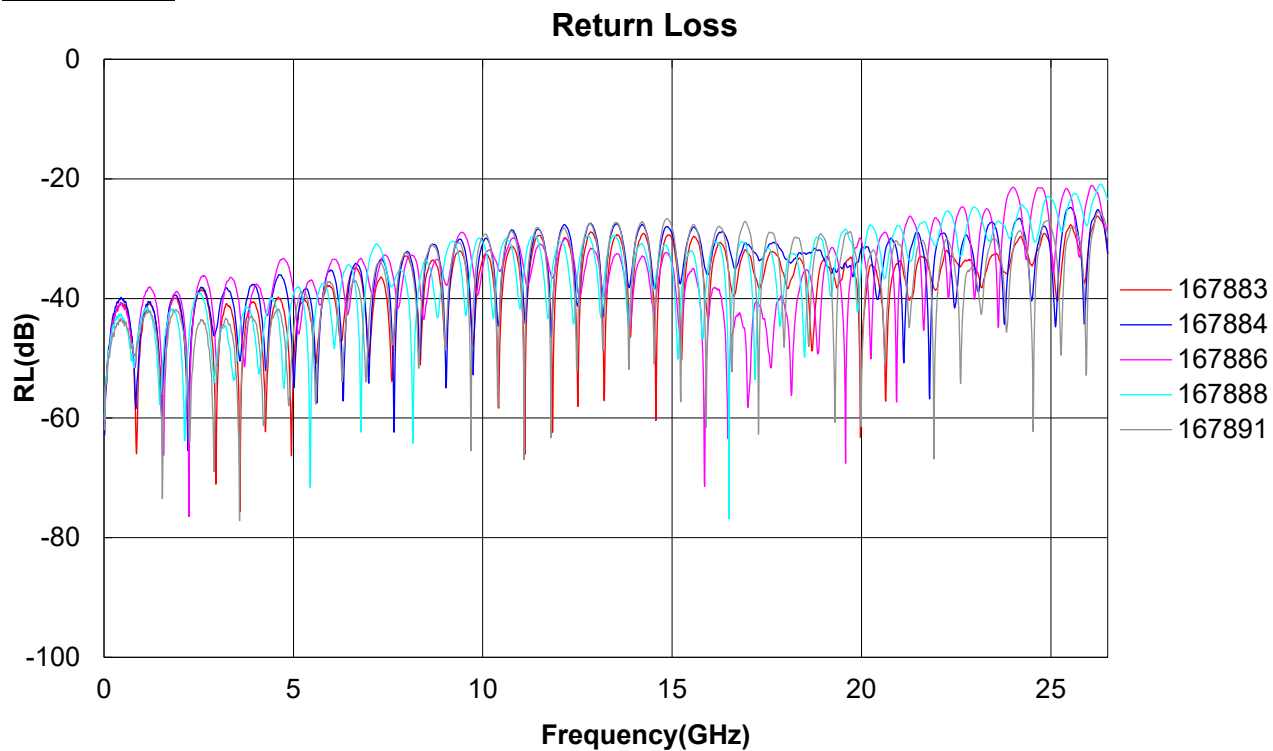
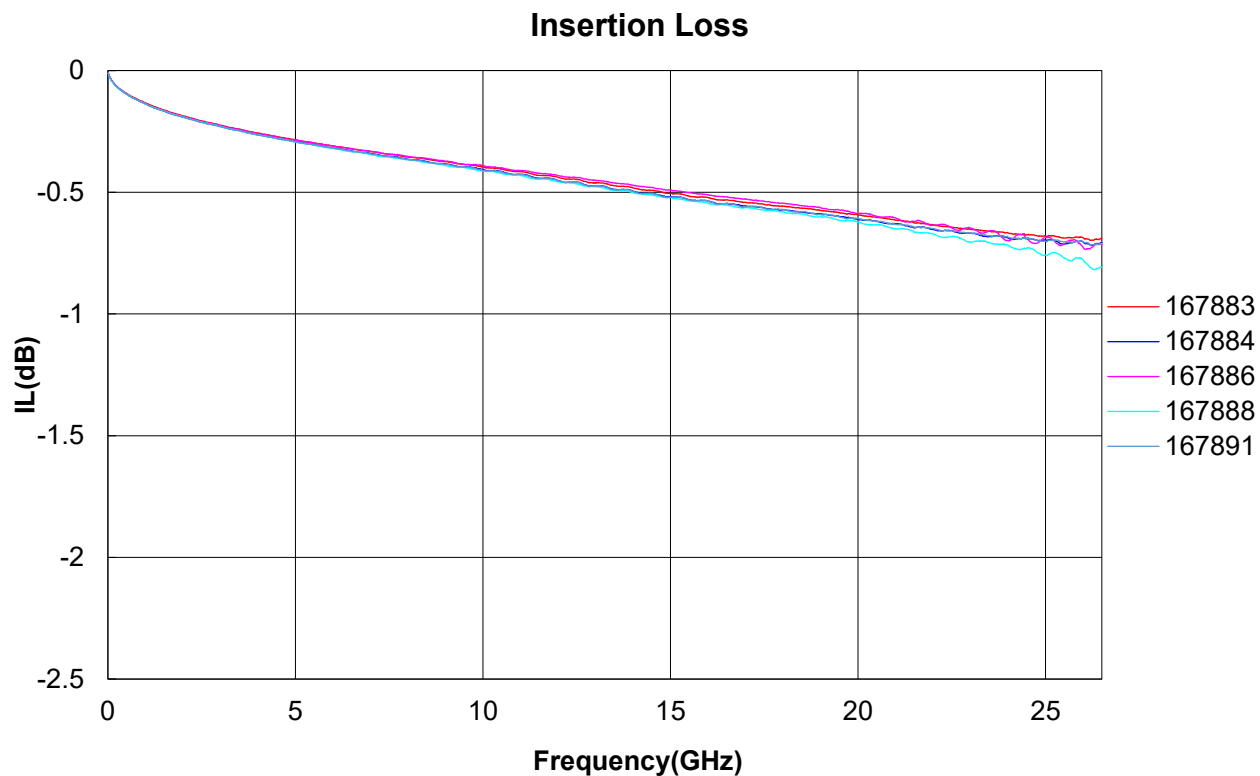
Description: High Performance Microwave Cable Assembly, SMP Jack End

Results: RF23C-00MJ-00MJ-0152

Description: RF23C High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
167883	1.10@26.23 GHz	-26.21@26.23 GHz	-0.70@26.26 GHz
167884	1.12@25.52 GHz	-24.78@25.52 GHz	-0.72@26.26 GHz
167886	1.19@26.08 GHz	-21.08@26.08 GHz	-0.74@26.06 GHz
167888	1.20@26.30 GHz	-20.90@26.30 GHz	-0.82@26.31 GHz
167891	1.11@26.25 GHz	-25.50@26.25 GHz	-0.72@26.27 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack EndReturn LossInsertion Loss

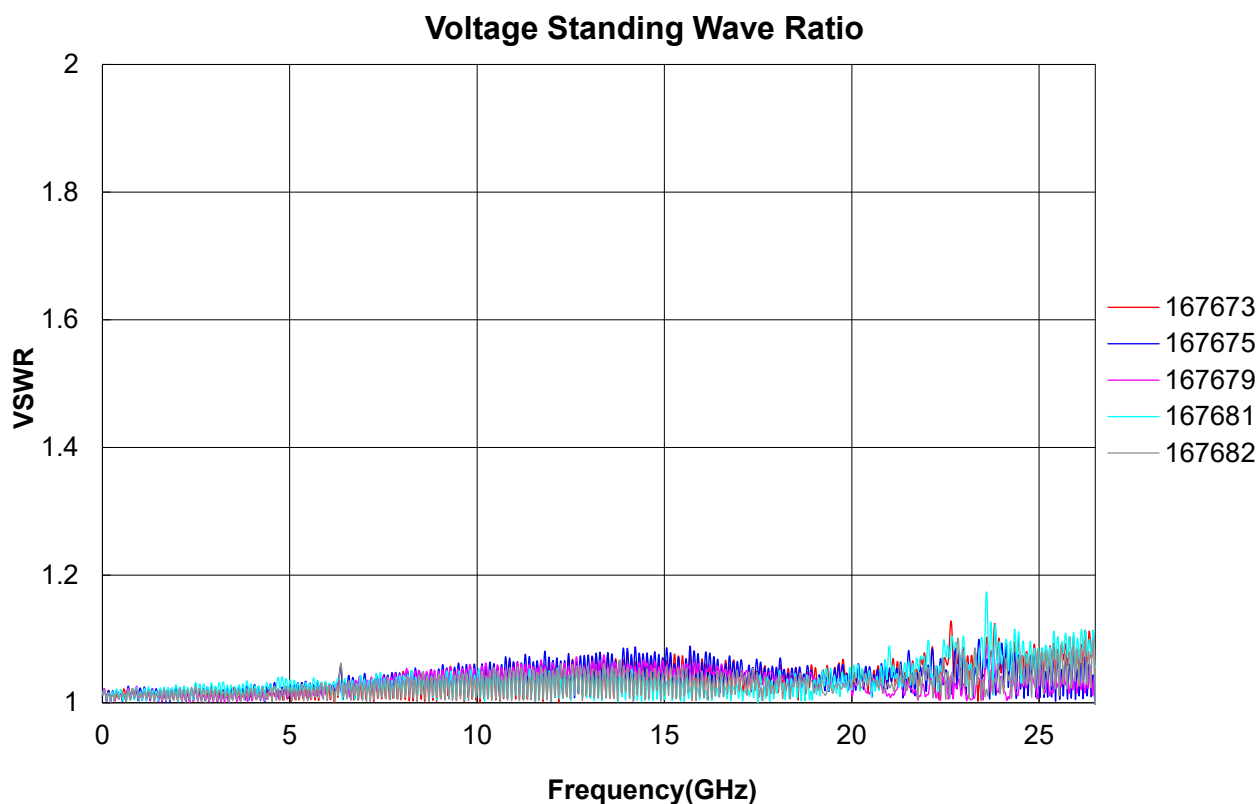
Series: RF23C

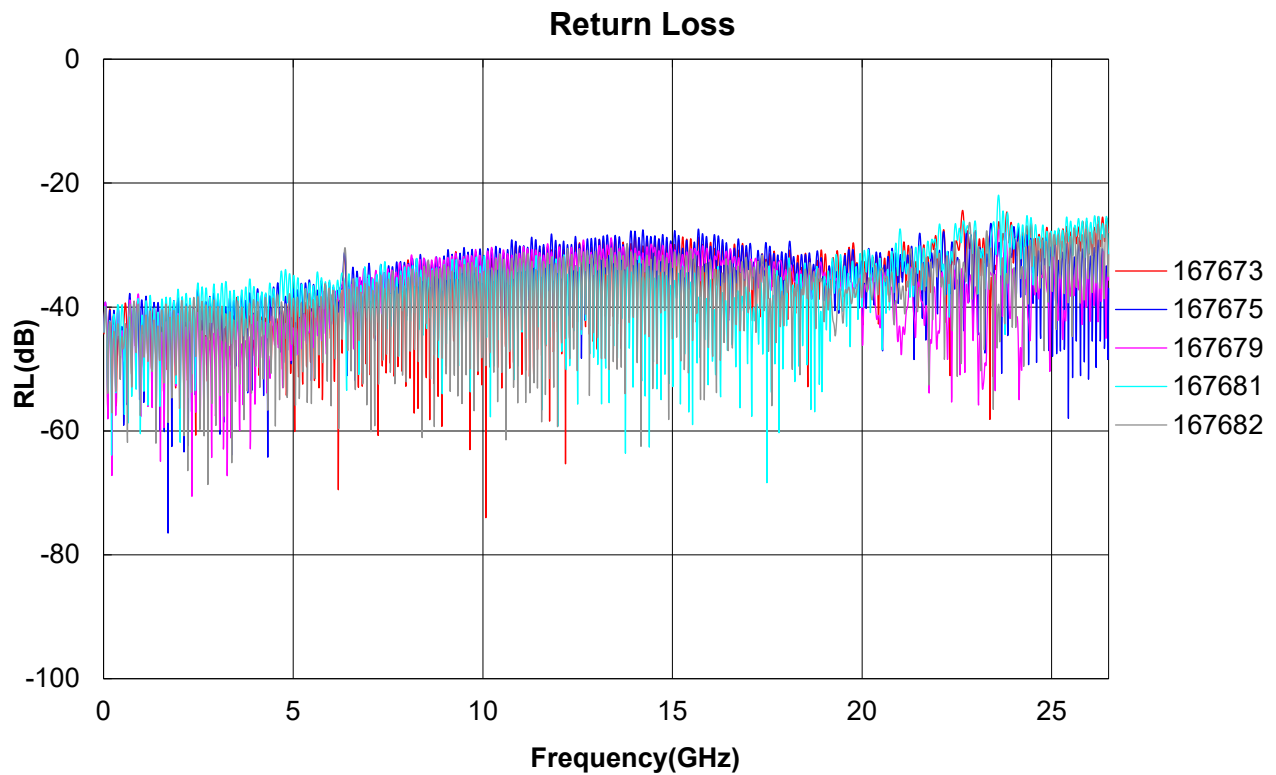
Description: High Performance Microwave Cable Assembly, SMP Jack End

Results: RF23C-00MJ-00MJ-1000

Description: RF23C High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
167673	1.13@22.65 GHz	-24.40@22.65 GHz	-4.08@26.45 GHz
167675	1.10@23.40 GHz	-26.51@23.40 GHz	-4.08@26.50 GHz
167679	1.09@23.62 GHz	-27.55@23.62 GHz	-4.10@26.50 GHz
167681	1.17@23.60 GHz	-21.95@23.60 GHz	-4.08@26.45 GHz
167682	1.10@22.83 GHz	-26.36@22.83 GHz	-4.11@26.43 GHz

VSWR



Series: RF23C**Description:** High Performance Microwave Cable Assembly, SMP Jack EndReturn LossInsertion Loss