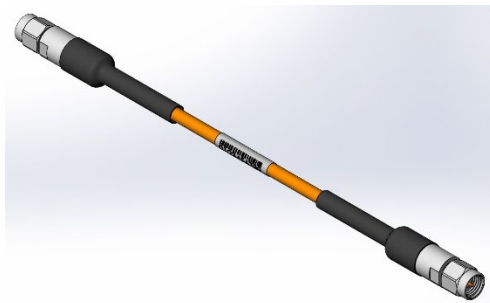




RF Characterization Report

LL043-01SP-01SP-XXXX



LL043-01BJ-01BJ-XXXX



Test Date: Aug 2024

Description:
26.5 GHz High-Performance Microwave Cable Assembly,
SMA End Options



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

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Series: LL043

Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for LL043 high frequency 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	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) adapters were used for LL043-01SP-01SP-XXXX, 1.85mm(F) to 2.92mm(M) adapters were used for LL043-01BJ-01BJ-XXXX testing, but the adapter effects were removed from the measurement by MCAL.

Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options**LL043-01XX-01XX-XXXX Test Definition**

Part Number	End 1	End 2
LL043-01SP-01SP-XXXX	SMA Straight Plug	SMA Straight Plug
LL043-01BJ-01BJ-XXXX	SMA Bulkhead Jack	SMA Bulkhead Jack

Cable Under Test:

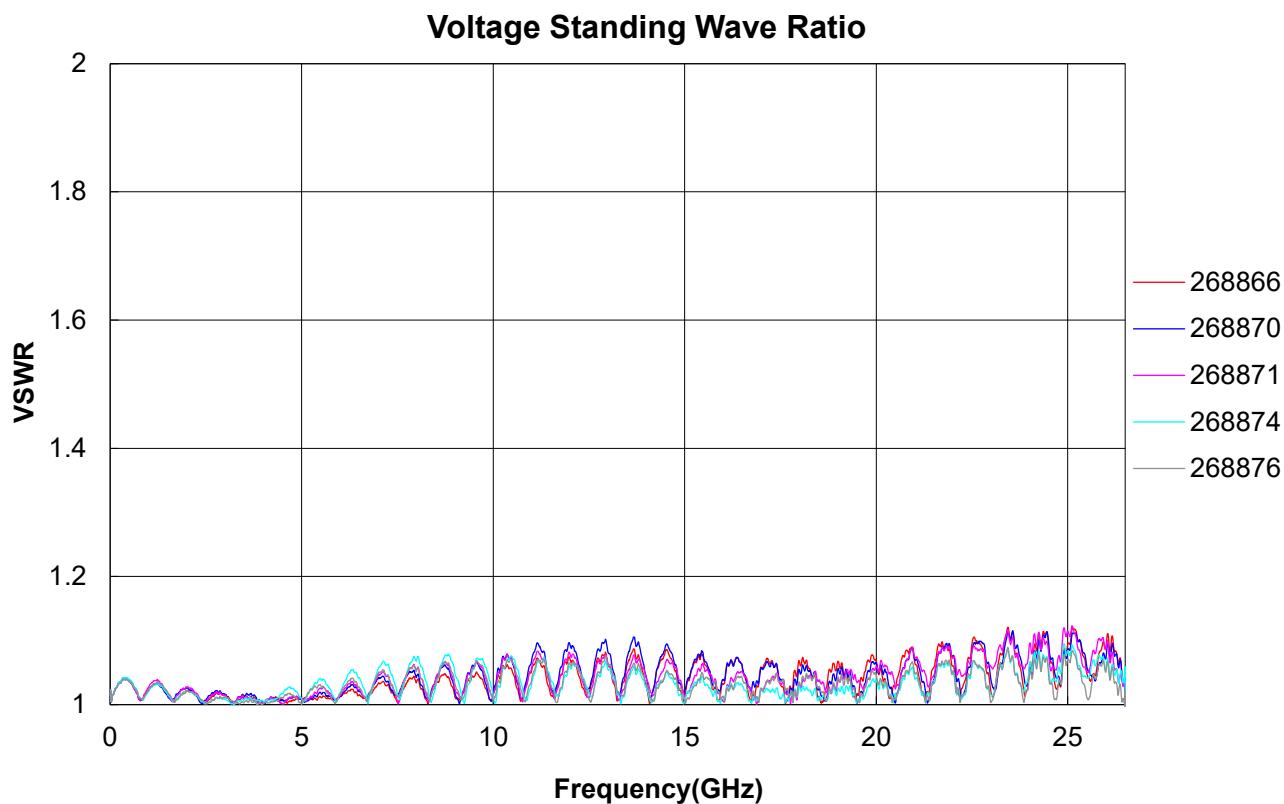
Series: LL043

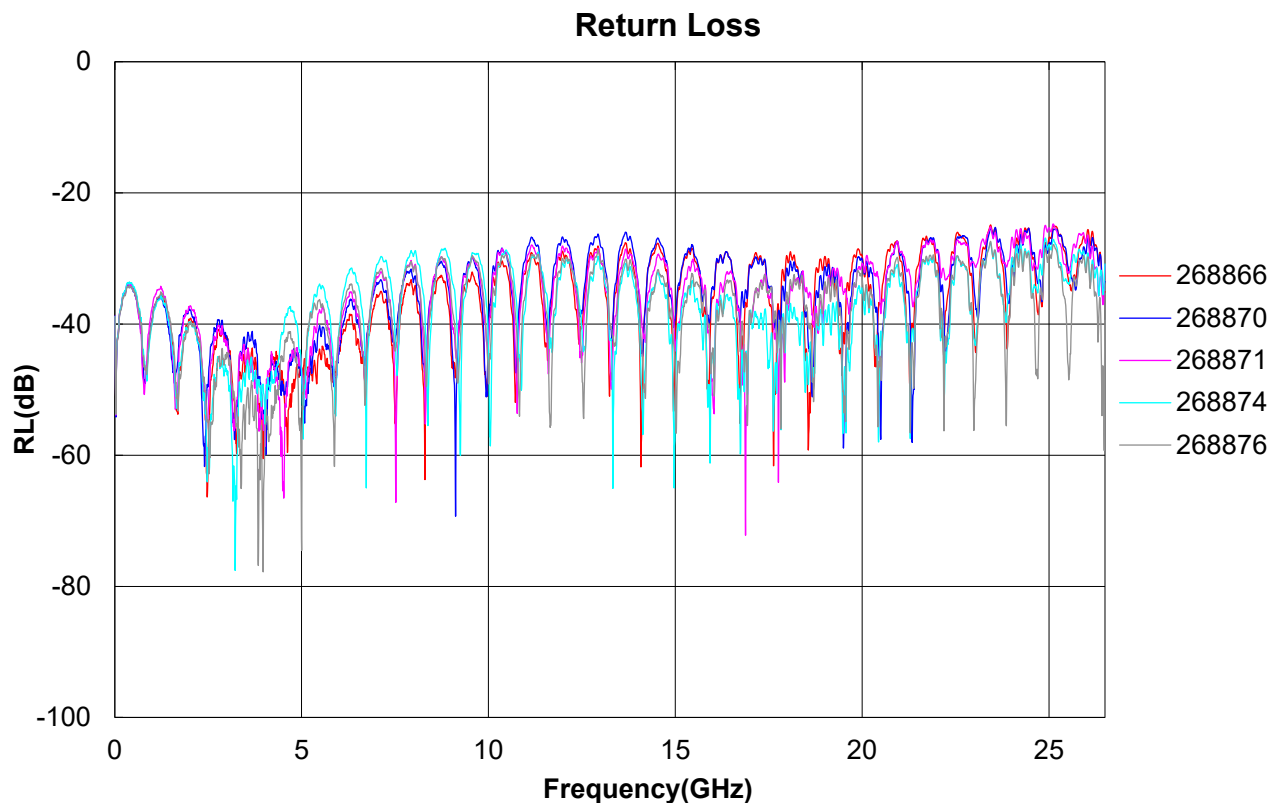
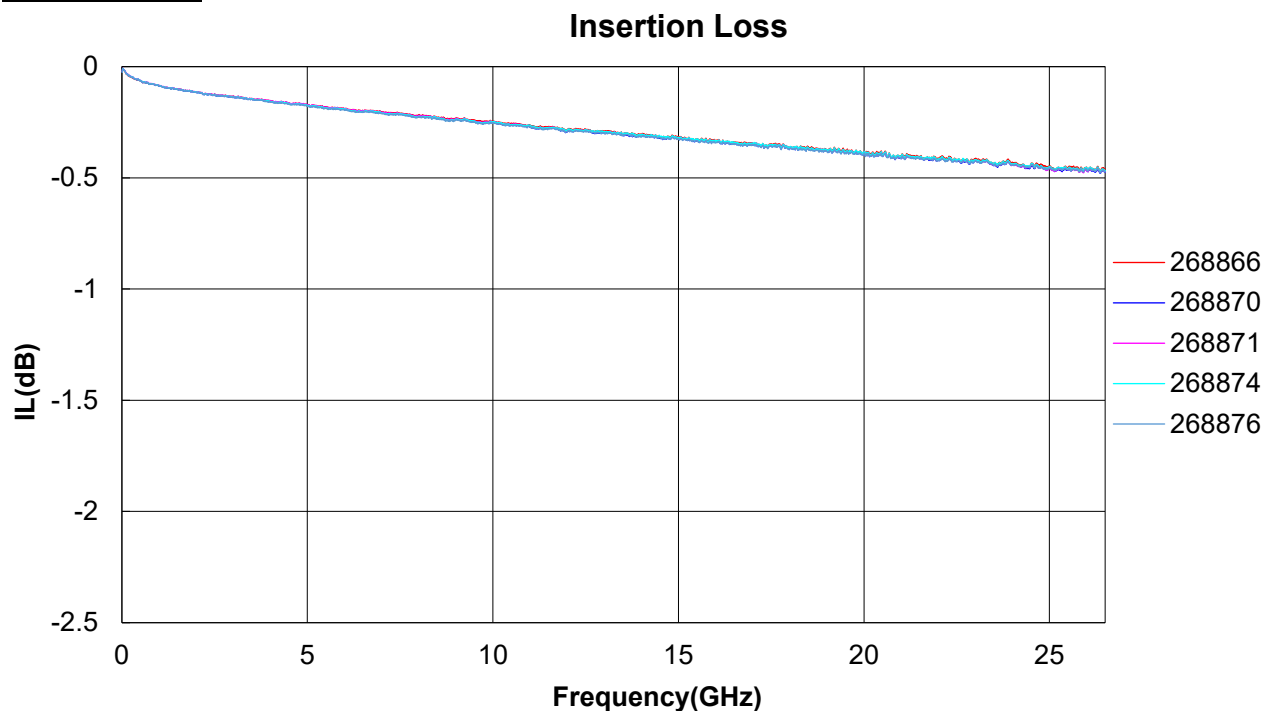
Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Results: LL043-01SP-01SP-0152

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
268866	1.12 @ 23.44 GHz	-24.88 @ 23.44 GHz	-0.47 @ 26.37 GHz
268870	1.12 @ 23.56 GHz	-25.26 @ 23.56 GHz	-0.48 @ 26.36 GHz
268871	1.12 @ 25.11 GHz	-24.74 @ 25.11 GHz	-0.48 @ 25.92 GHz
268874	1.09 @ 24.90 GHz	-26.87 @ 24.90 GHz	-0.47 @ 26.38 GHz
268876	1.09 @ 23.44 GHz	-27.39 @ 23.44 GHz	-0.48 @ 26.38 GHz

VSWR



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, SMA End OptionsReturn LossInsertion Loss

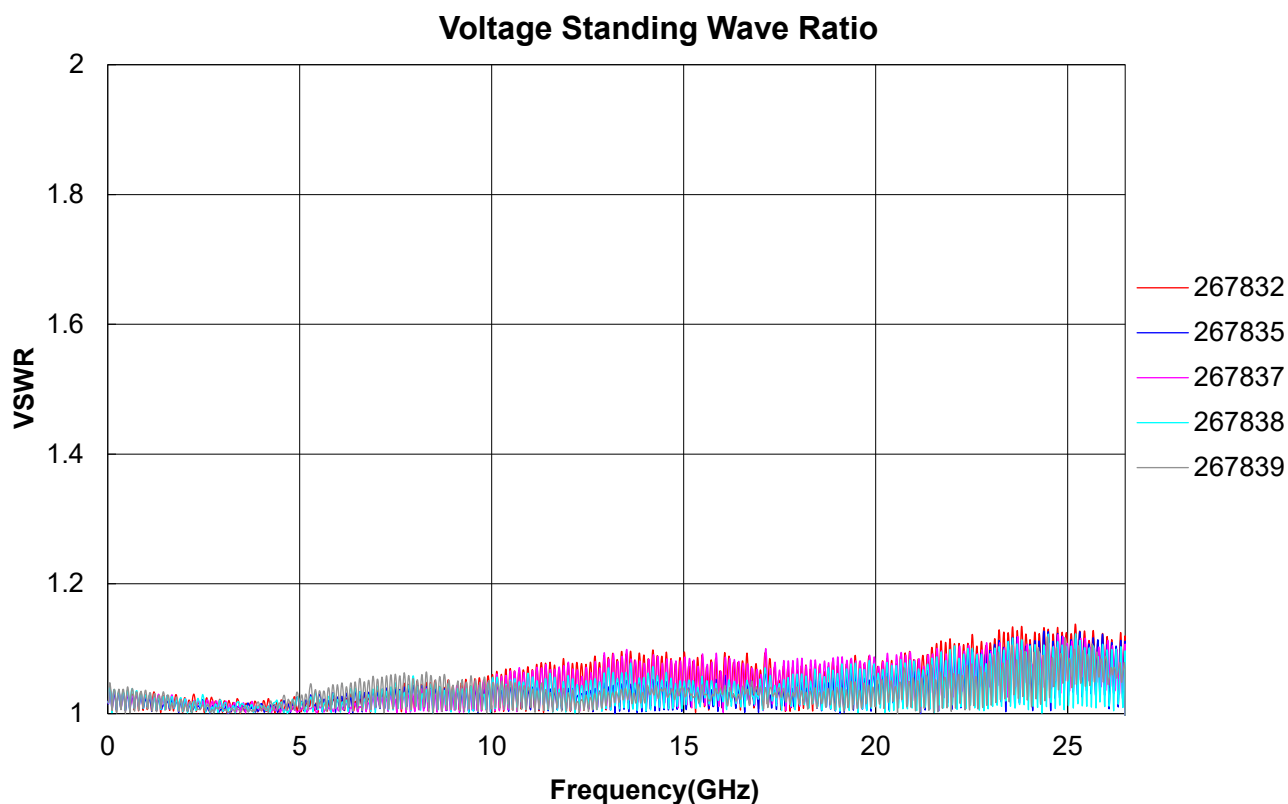
Series: LL043

Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Results: LL043-01SP-01SP-1000

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
267832	1.14 @ 25.20 GHz	-23.80 @ 25.20 GHz	-2.26 @ 26.38 GHz
267835	1.13 @ 24.38 GHz	-24.46 @ 24.38 GHz	-2.29 @ 26.49 GHz
267837	1.12 @ 24.75 GHz	-24.80 @ 24.75 GHz	-2.26 @ 26.49 GHz
267838	1.12 @ 25.21 GHz	-24.74 @ 25.21 GHz	-2.27 @ 26.49 GHz
267839	1.12 @ 24.47 GHz	-25.06 @ 24.47 GHz	-2.25 @ 26.49 GHz

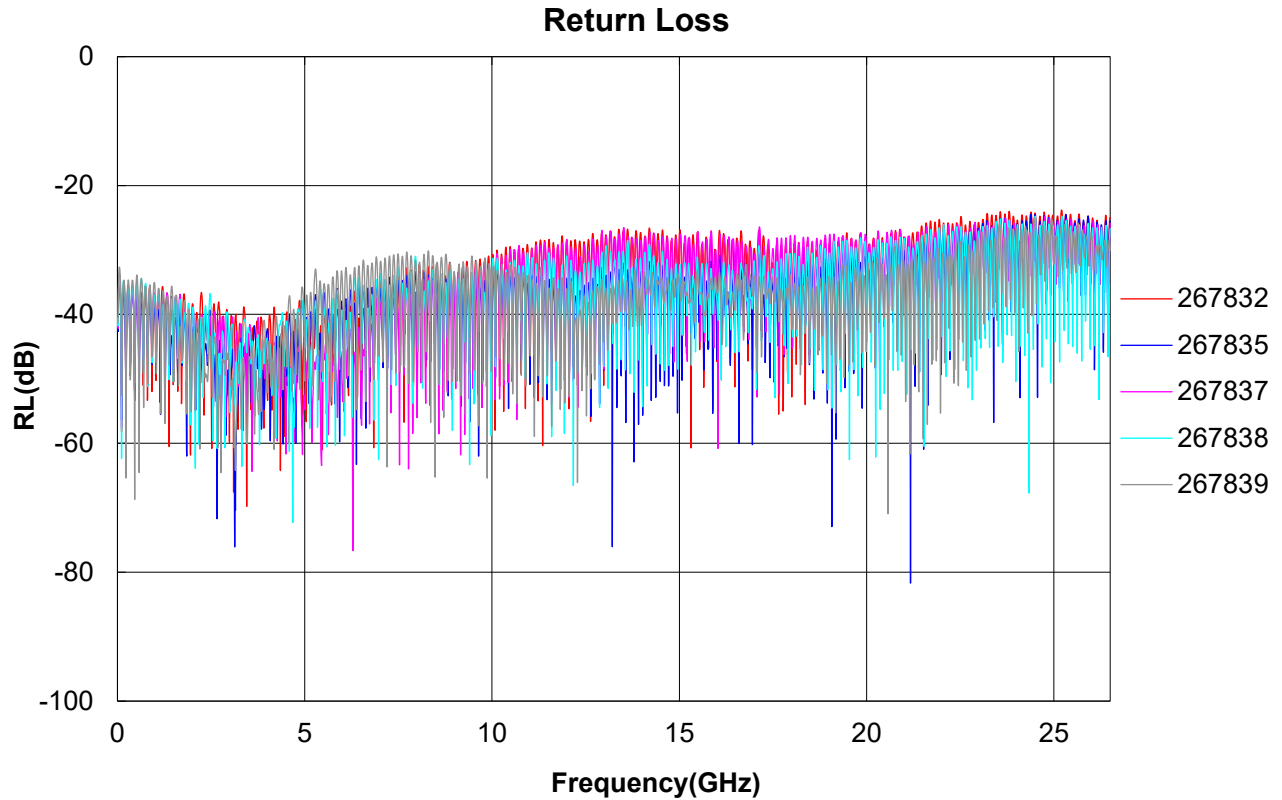
VSWR



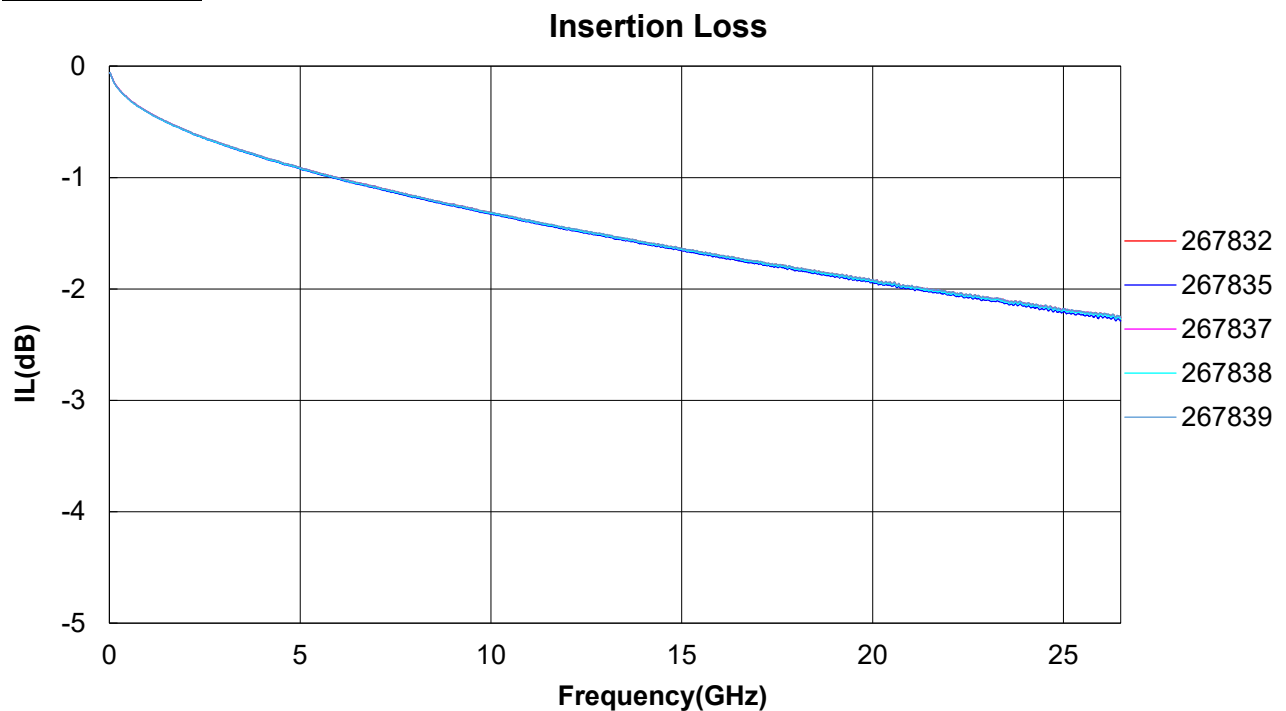
Series: LL043

Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Return Loss



Insertion Loss



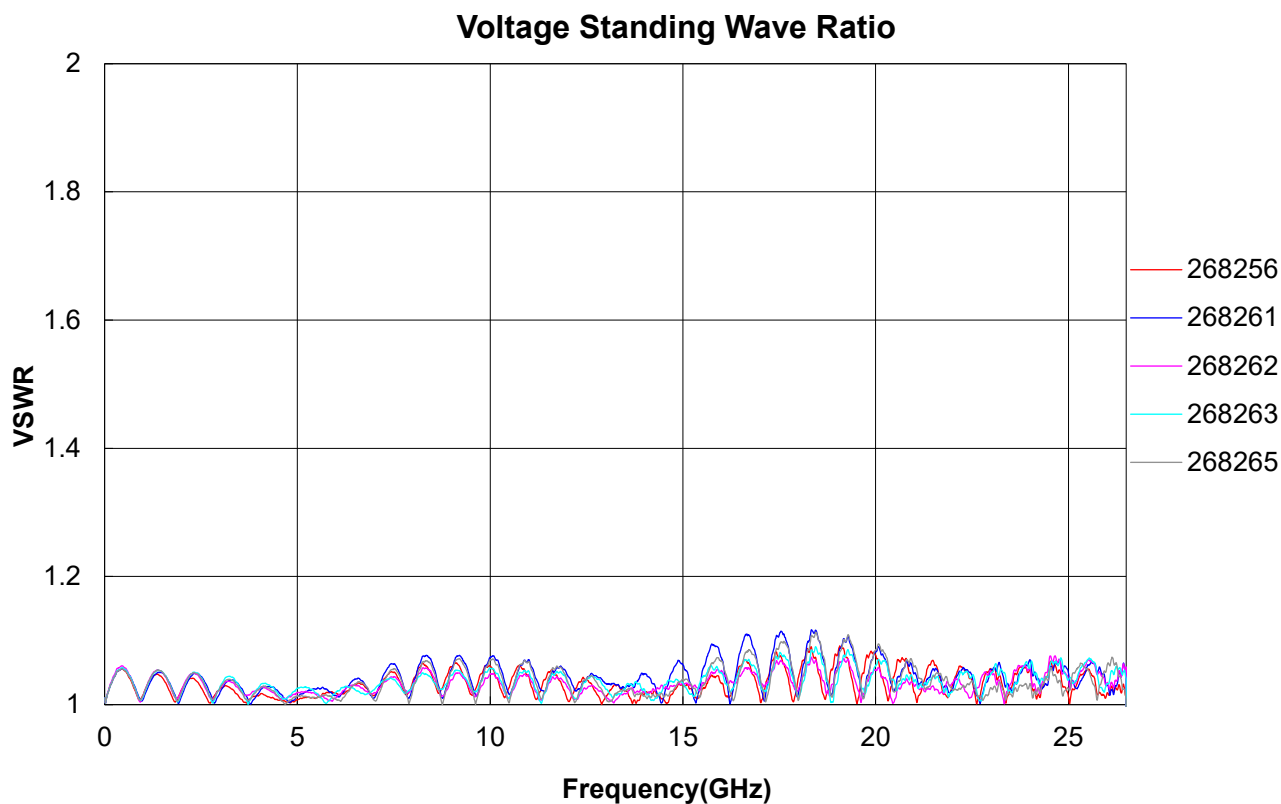
Series: LL043

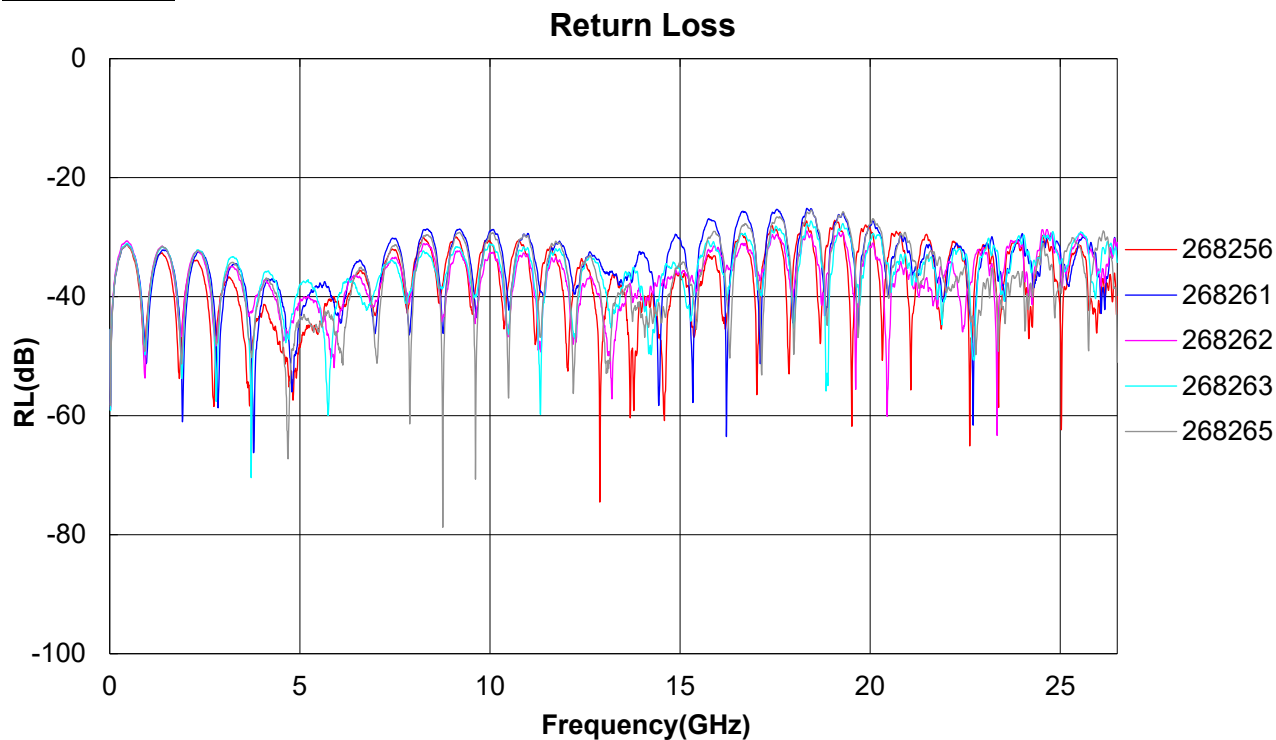
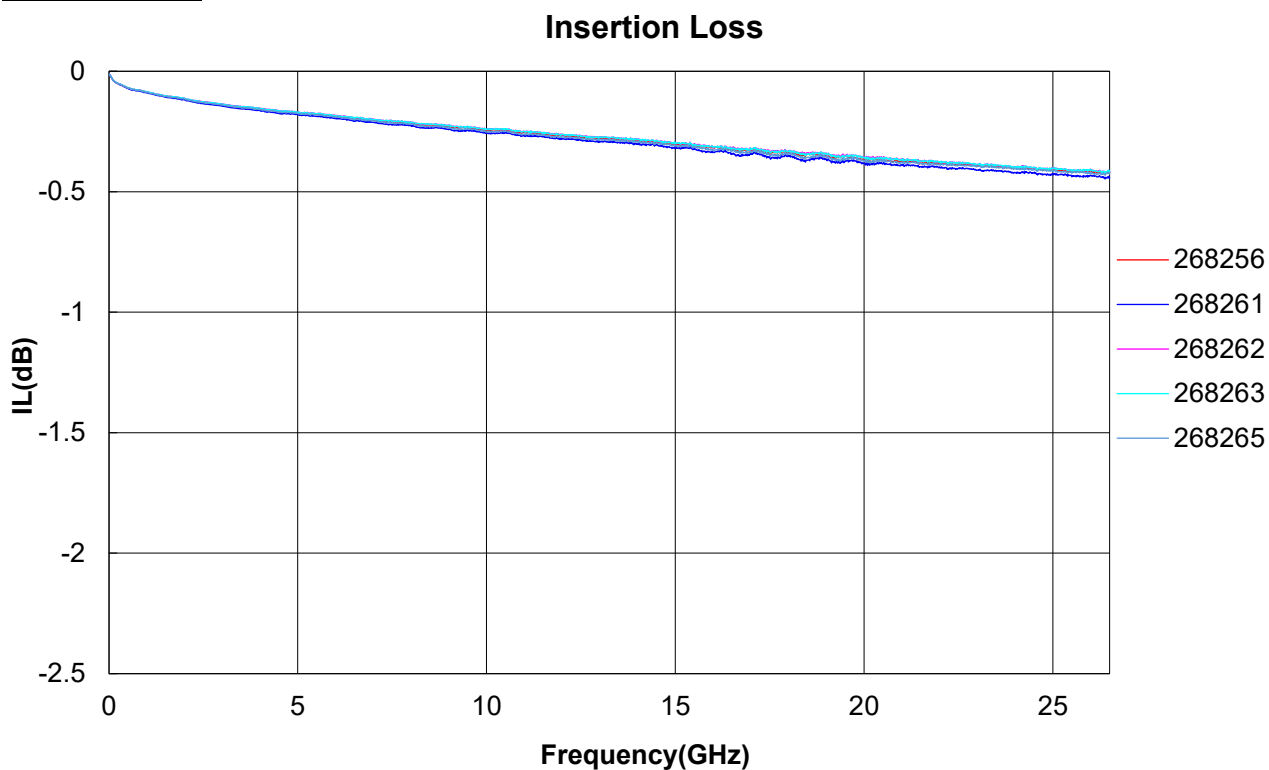
Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Results: LL043-01BJ-01BJ-0152

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
268256	1.09 @ 19.07 GHz	-27.15 @ 19.07 GHz	-0.43 @ 26.38 GHz
268261	1.12 @ 18.34 GHz	-25.16 @ 18.34 GHz	-0.45 @ 26.38 GHz
268262	1.08 @ 24.66 GHz	-28.71 @ 24.66 GHz	-0.42 @ 26.38 GHz
268263	1.09 @ 18.44 GHz	-27.27 @ 18.44 GHz	-0.42 @ 26.38 GHz
268265	1.11 @ 18.45 GHz	-25.44 @ 18.45 GHz	-0.43 @ 26.38 GHz

VSWR



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, SMA End OptionsReturn LossInsertion Loss

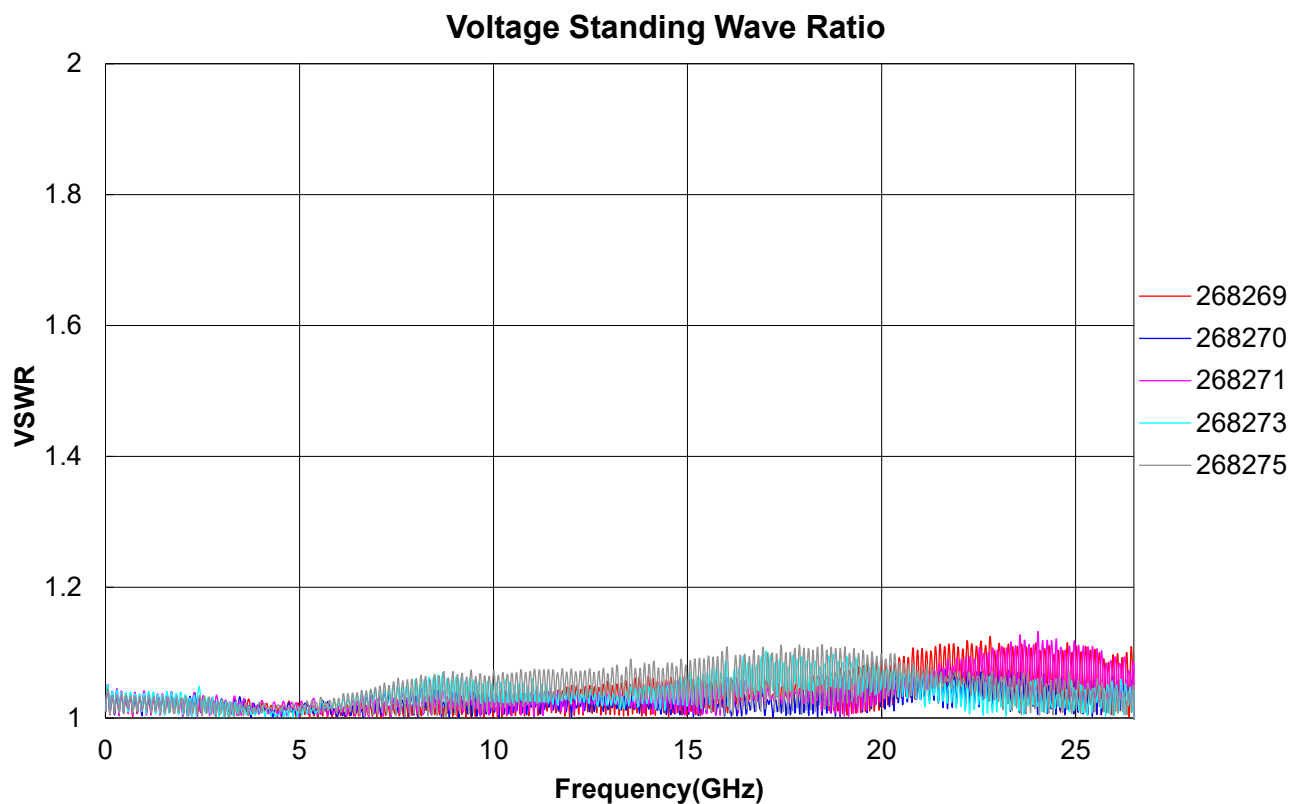
Series: LL043

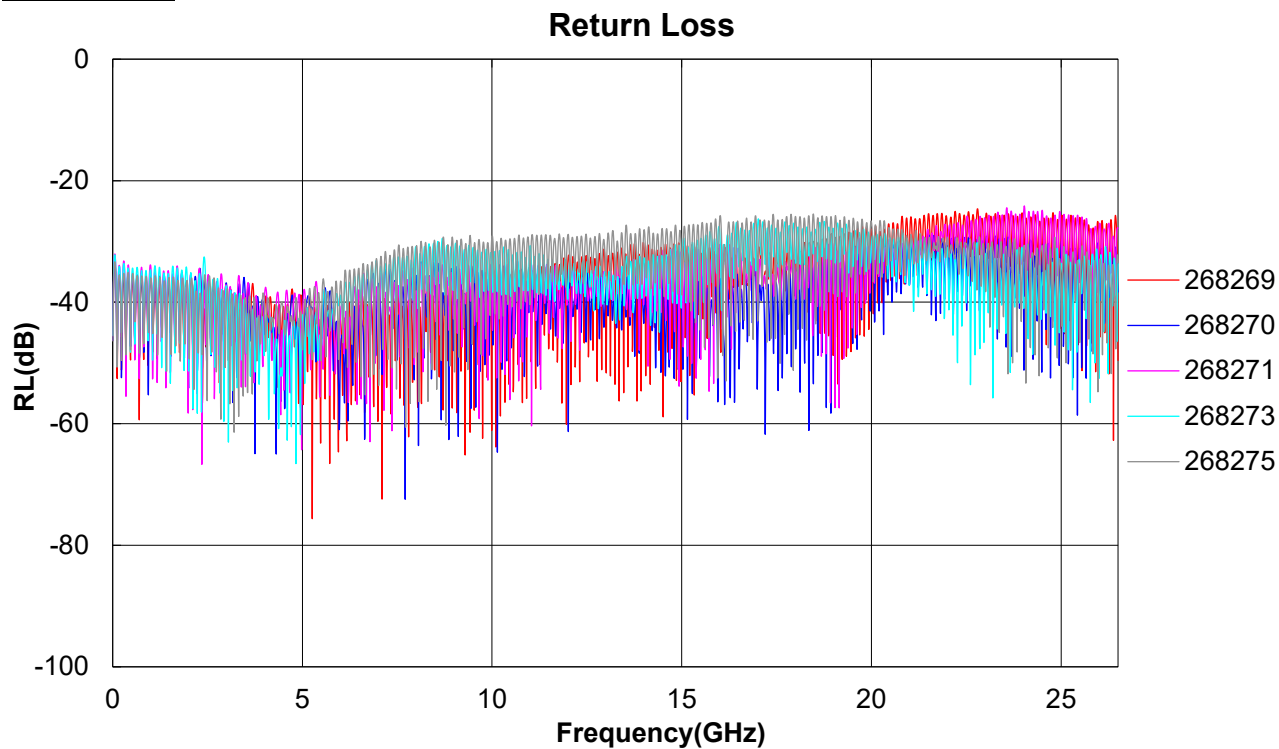
Description: 50 Ohm, High-performance Microwave Cable Assembly, SMA End Options

Results: LL043-01BJ-01BJ-1000

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(dB, max)	IL(dB, min)
268269	1.12 @ 22.80 GHz	-24.64 @ 22.80 GHz	-2.25 @ 26.44 GHz
268270	1.07 @ 21.52 GHz	-28.96 @ 21.52 GHz	-2.24 @ 26.38 GHz
268271	1.13 @ 24.03 GHz	-24.15 @ 24.03 GHz	-2.24 @ 26.49 GHz
268273	1.10 @ 17.02 GHz	-26.28 @ 17.02 GHz	-2.24 @ 26.49 GHz
268275	1.11 @ 18.47 GHz	-25.49 @ 18.47 GHz	-2.24 @ 26.49 GHz

VSWR



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, SMA End OptionsReturn LossInsertion Loss