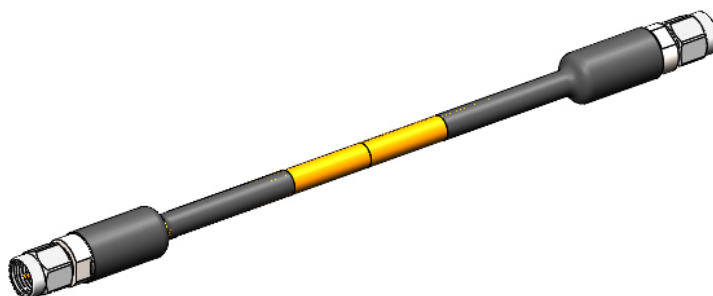




RF Characterization Report

LL032-01SP-01SP-XXXX



Test Date: Jun 2026

Description:

**32 GHz Nitrowave™ High-Performance Microwave Cable Assembly,
SMA Plug End Option**



Series: LL032**Description:** 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:.....	1
Calibration Type:.....	1
Adapter Use:.....	1
LL032-01XX-01XX-XXXX Test Definition.....	2
Cable Under Test:.....	2
Results: LL032-01SP-01SP-0152.....	3
VSWR	3
Return Loss.....	4
Insertion Loss.....	4
Results: LL032-01SP-01SP-1000.....	5
VSWR	5
Return Loss.....	6
Insertion Loss.....	6

Series: LL032

Description: 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for LL032 high frequency RF cable assembly with SMA plug connector end option.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA P5008A
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	40 GHz
Points	4000
	Junkosha MWX061 (DC to 67 GHz)
Test Cables	1.85mm Plug – 1.85mm Jack

Calibration Type:

A Keysight mechanical calibration is performed for P5008A using the Maury 8770CK kit.

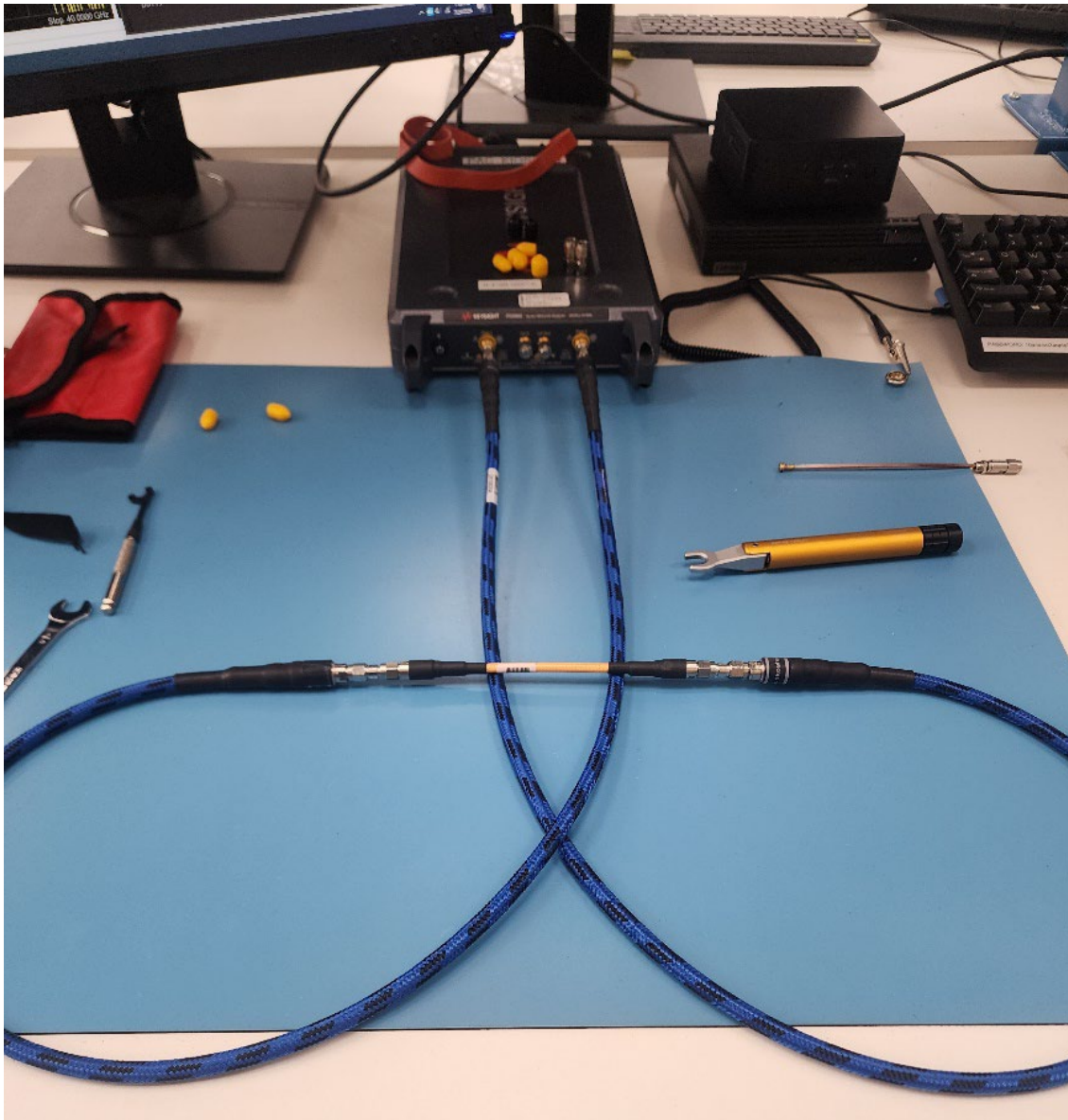
Calibration Kit	Maury 8770CK
-----------------	--------------

Adapter Use:

CentricRF C8193 1.85mm plug to 2.92mm jack adapters were used for the measurements of LL032-01SP-01SP-XXXX. Calibration was performed to the adapter interface.

Series: LL032**Description:** 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option**LL032-01XX-01XX-XXXX Test Definition**

Part Number	End 1	End 2
LL032-01SP-01SP-XXXX	SMA Plug	SMA Plug

Cable Under Test:

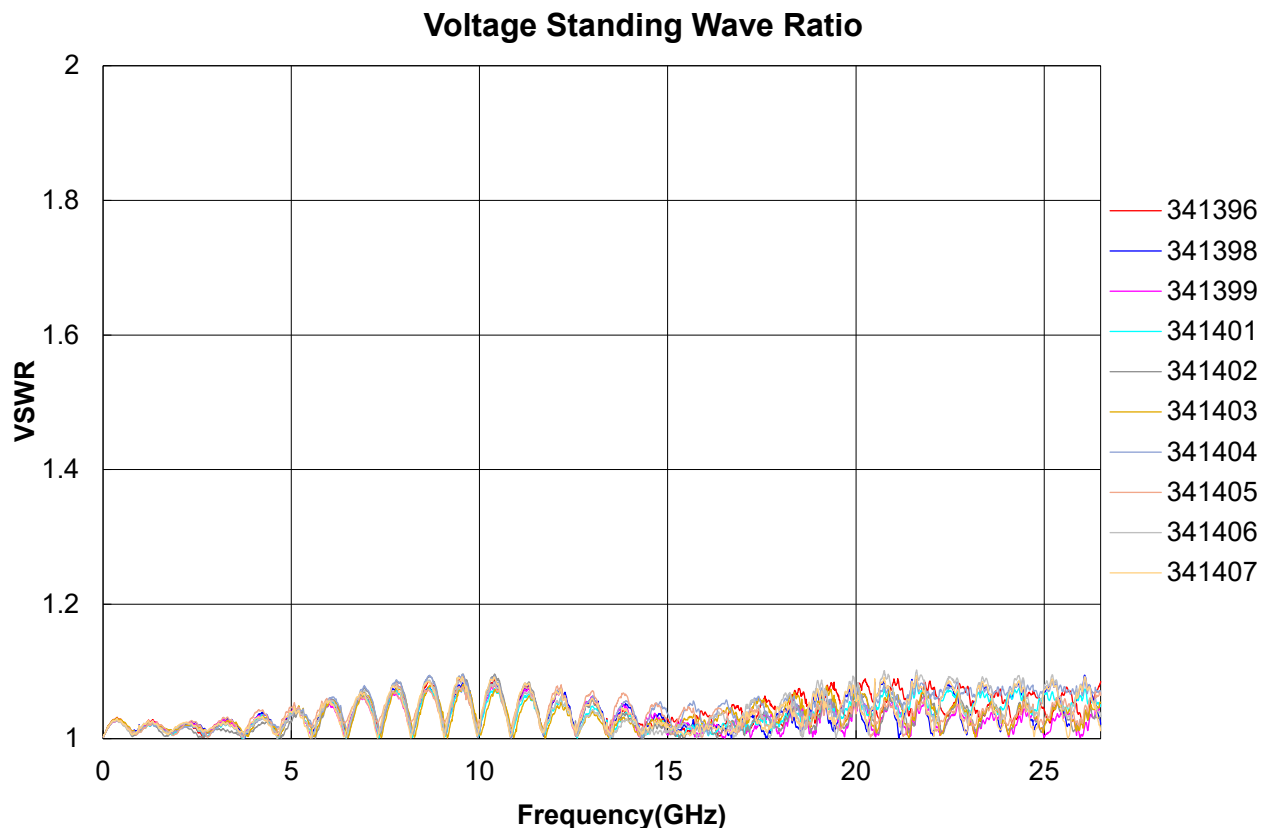
Series: LL032

Description: 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Results: LL032-01SP-01SP-0152

Description: LL032 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL(dB, min)
341396	1.06 @ 9.54 GHz	-27.16 @ 9.54 GHz	-0.34 @ 26.36 GHz
341398	1.09 @ 26.07 GHz	-26.93 @ 26.07 GHz	-0.34 @ 26.24 GHz
341399	1.08 @ 10.40 GHz	-28.18 @ 10.40 GHz	-0.34 @ 26.24 GHz
341401	1.08 @ 21.61 GHz	-27.86 @ 21.61 GHz	-0.35 @ 26.36 GHz
341402	1.10 @ 10.40 GHz	-26.76 @ 10.40 GHz	-0.35 @ 26.36 GHz
341403	1.08 @ 9.57 GHz	-28.23 @ 9.57 GHz	-0.35 @ 26.36 GHz
341404	1.10 @ 9.56 GHz	-26.83 @ 9.56 GHz	-0.36 @ 26.23 GHz
341405	1.08 @ 10.40 GHz	-28.14 @ 10.40 GHz	-0.36 @ 26.36 GHz
341406	1.10 @ 21.61 GHz	-26.26 @ 21.61 GHz	-0.37 @ 26.11 GHz
341407	1.09 @ 21.61 GHz	-26.99 @ 21.61 GHz	-0.37 @ 26.24 GHz

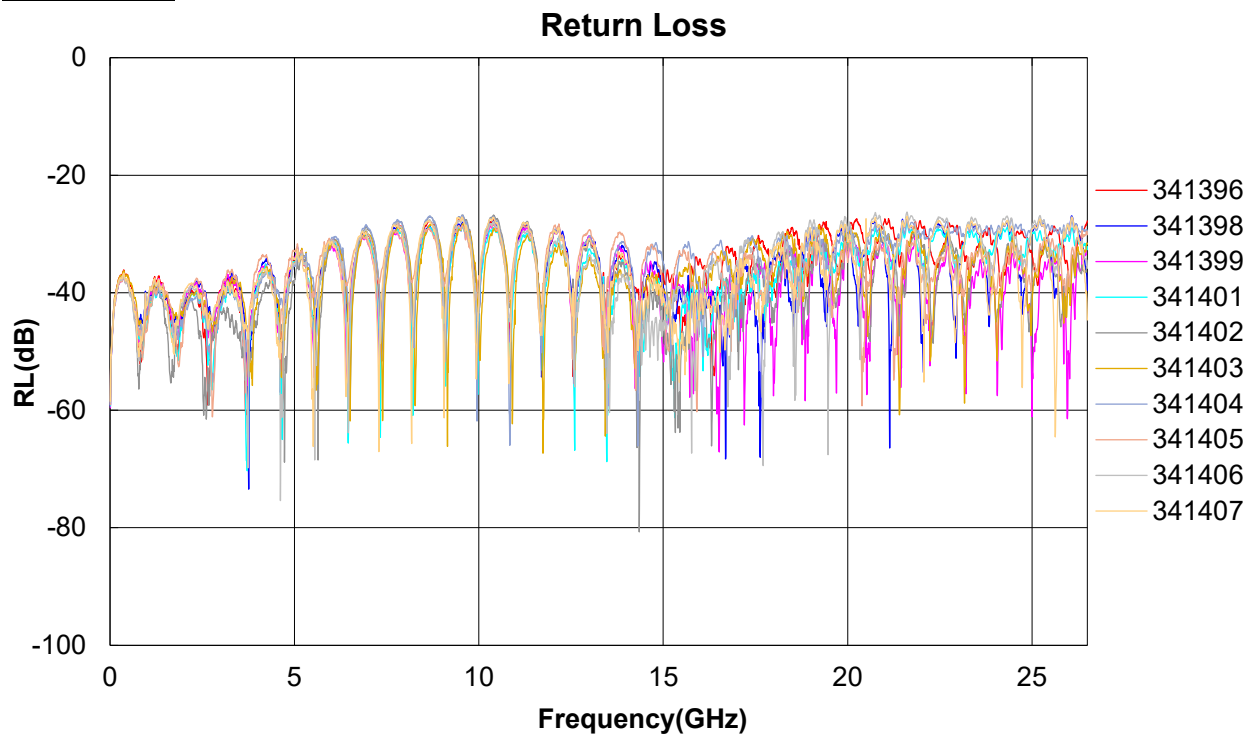
VSWR



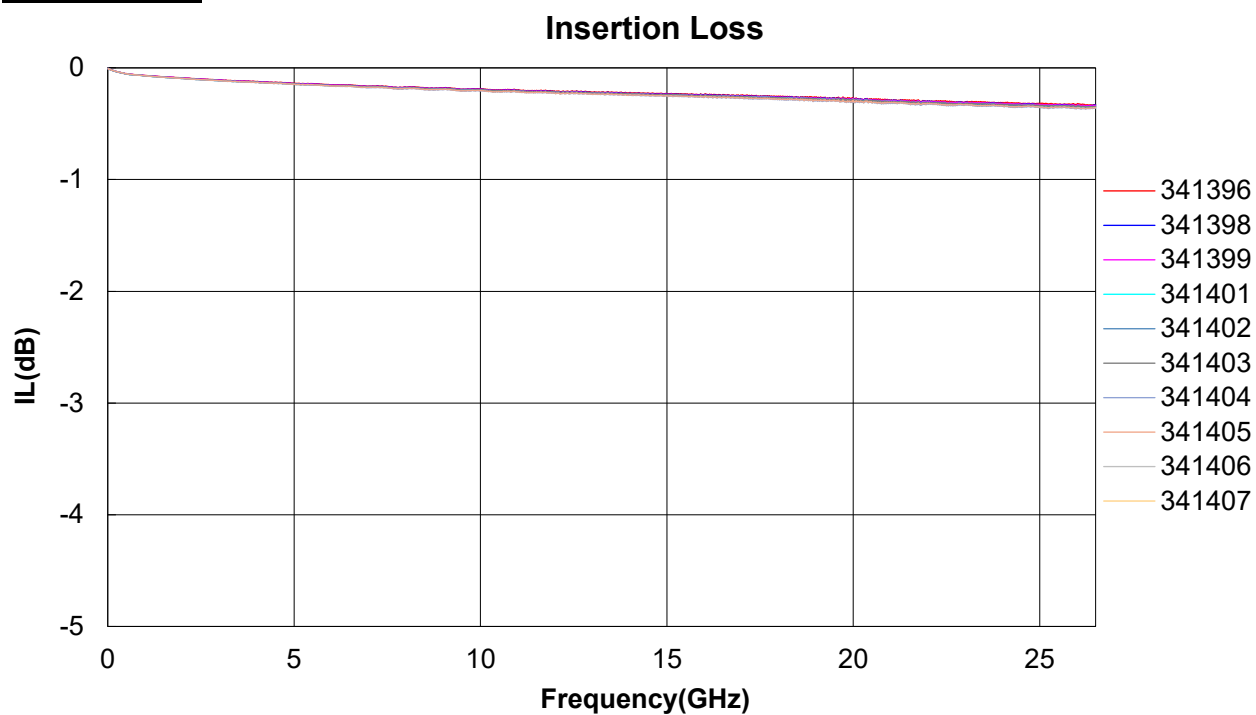
Series: LL032

Description: 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Return Loss



Insertion Loss



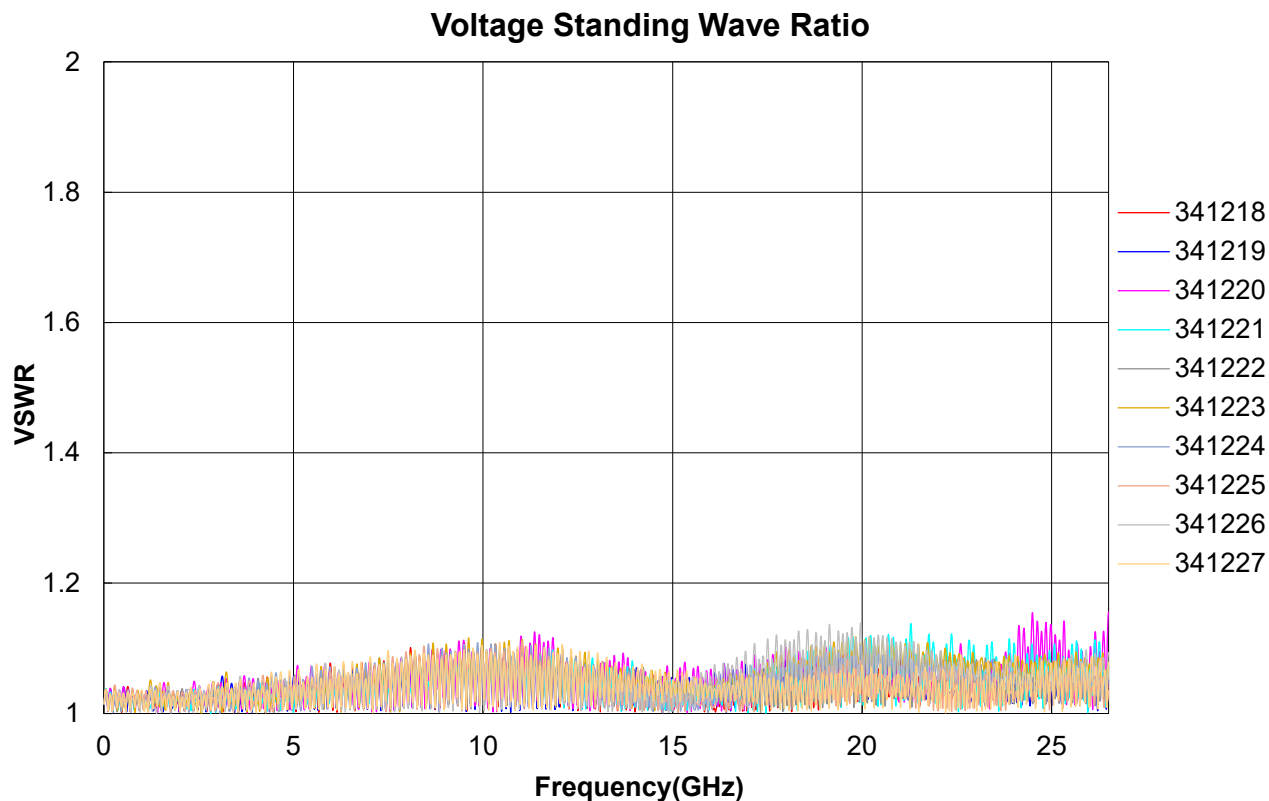
Series: LL032

Description: 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Results: LL032-01SP-01SP-1000

Description: LL032 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL(dB, min)
341218	1.11 @ 9.50 GHz	-25.76 @ 9.50 GHz	-1.63 @ 26.46 GHz
341219	1.10 @ 9.96 GHz	-26.34 @ 9.96 GHz	-1.61 @ 26.50 GHz
341220	1.16 @ 26.50 GHz	-22.83 @ 26.50 GHz	-1.67 @ 26.50 GHz
341221	1.14 @ 21.28 GHz	-23.80 @ 21.28 GHz	-1.64 @ 26.47 GHz
341222	1.11 @ 19.84 GHz	-25.76 @ 19.84 GHz	-1.64 @ 26.46 GHz
341223	1.12 @ 20.19 GHz	-25.10 @ 20.19 GHz	-1.64 @ 26.47 GHz
341224	1.11 @ 9.86 GHz	-25.75 @ 9.86 GHz	-1.64 @ 26.49 GHz
341225	1.11 @ 11.03 GHz	-25.60 @ 11.03 GHz	-1.67 @ 26.45 GHz
341226	1.14 @ 19.96 GHz	-23.73 @ 19.96 GHz	-1.71 @ 26.50 GHz
341227	1.11 @ 10.44 GHz	-25.71 @ 10.44 GHz	-1.66 @ 26.50 GHz

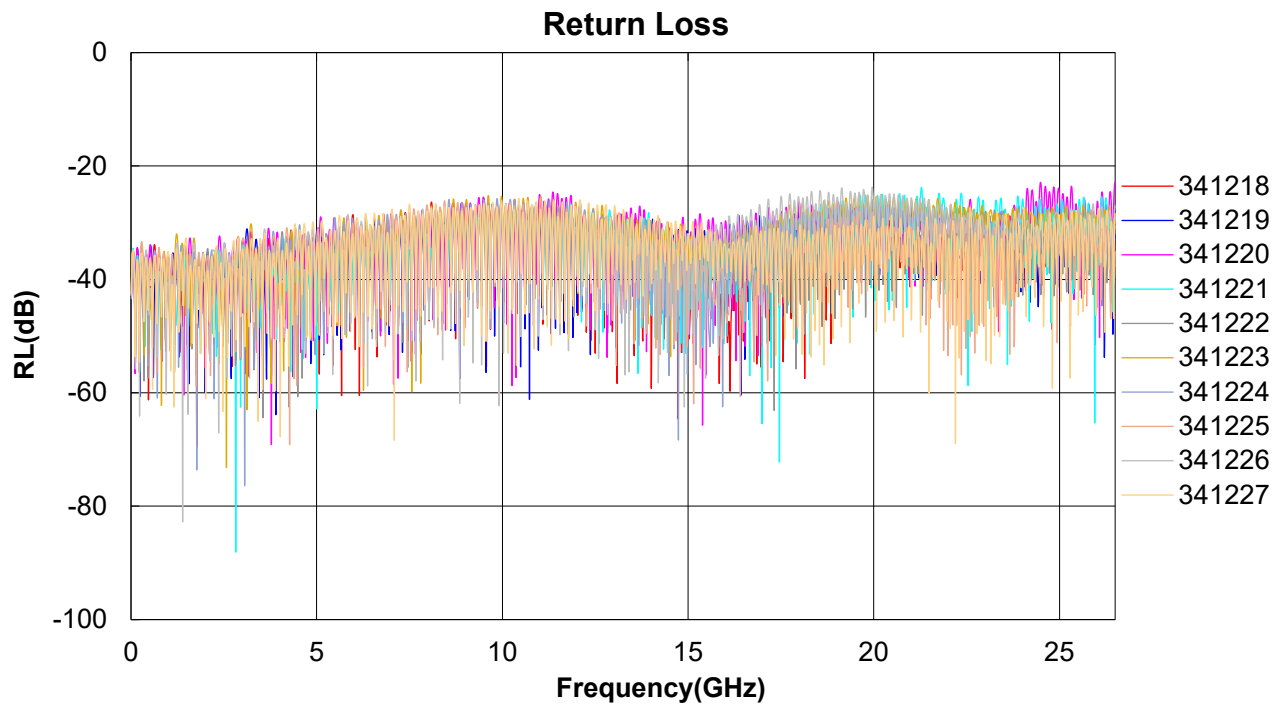
VSWR



Series: LL032

Description: 50 Ohm, Low-loss, high-performance microwave cable assembly,
SMA Plug End Option

Return Loss



Insertion Loss

