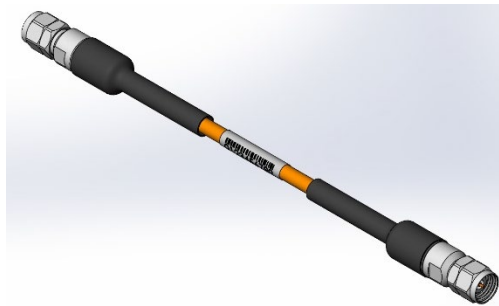




RF Characterization Report

LL043-24SP-24SP-XXXX



Test Date: Aug 2024

Description:
43.5 GHz High-Performance Microwave Cable Assembly,
2.40mm Plug End Option



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End Option

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Series: LL043

Description: 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End Option

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	43.5 GHz
Points	4350
Test Cables	Junkosha MWX251(DC to 50 GHz)

Calibration Type:

A Keysight mechanical calibration is performed for N5227B using the Keysight 85056D kit.

Calibration Kit	Keysight 85056D
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Adapter Use:

The calibration planes for the measurements are at the end of 2.4mm jack to jack adapters, no adapter effects are included in the results.

Series: LL043

Description: 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End Option

LL043-24SX-24SX-XXXX Test Definition

Part Number	End 1	End 2
LL043-24SP-24SP-0152	2.4mm Plug	2.4mm Plug
LL043-24SP-24SP-1000	2.4mm Plug	2.4mm Plug

Cable Under Test:



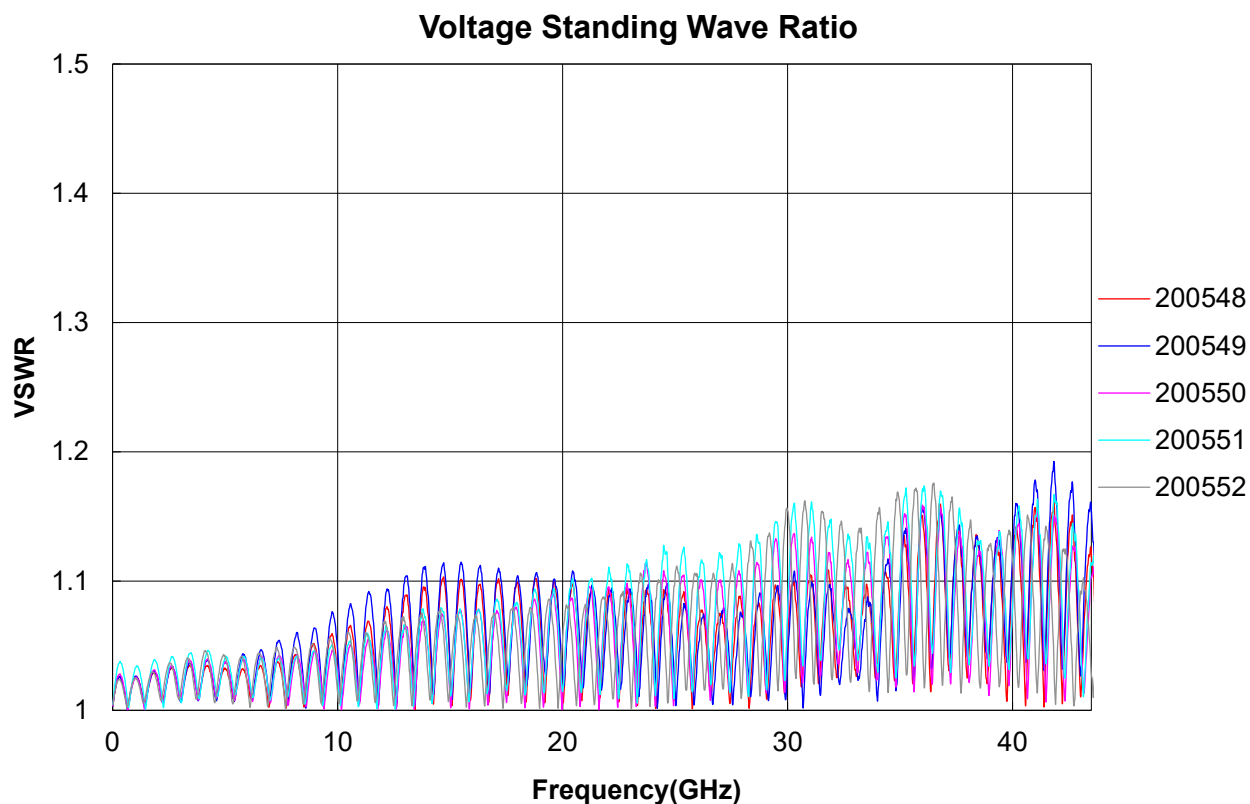
Series: LL043

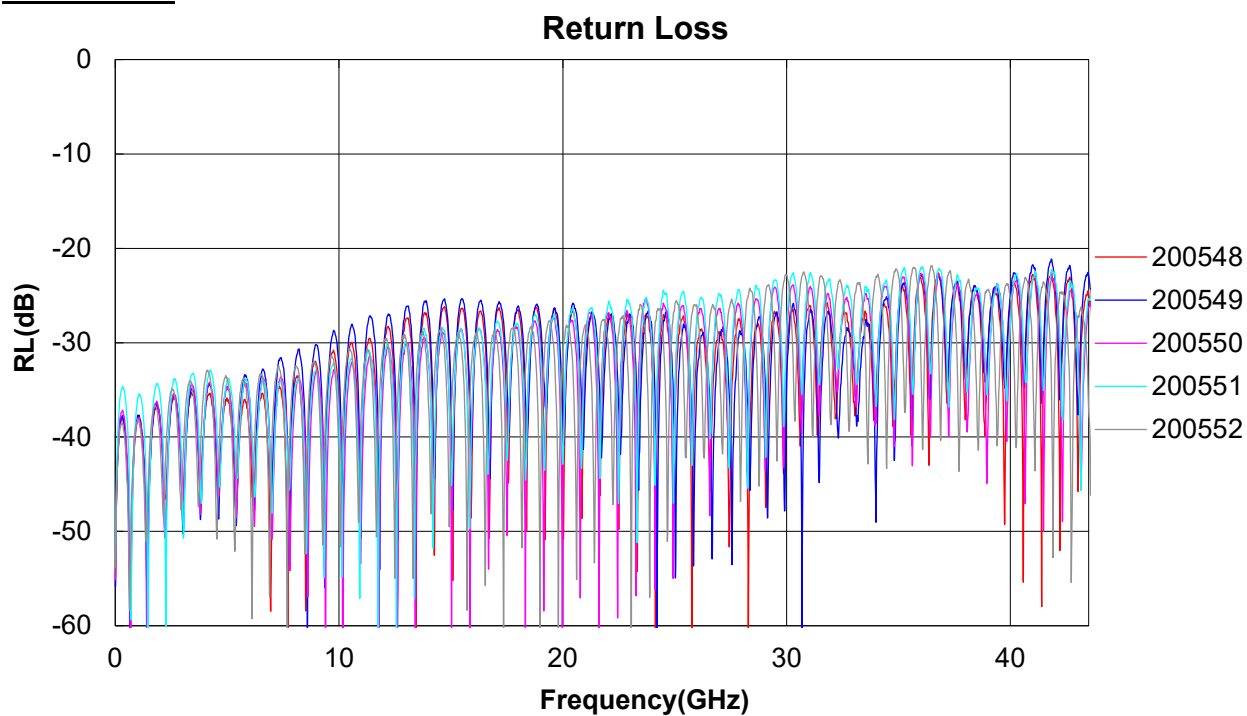
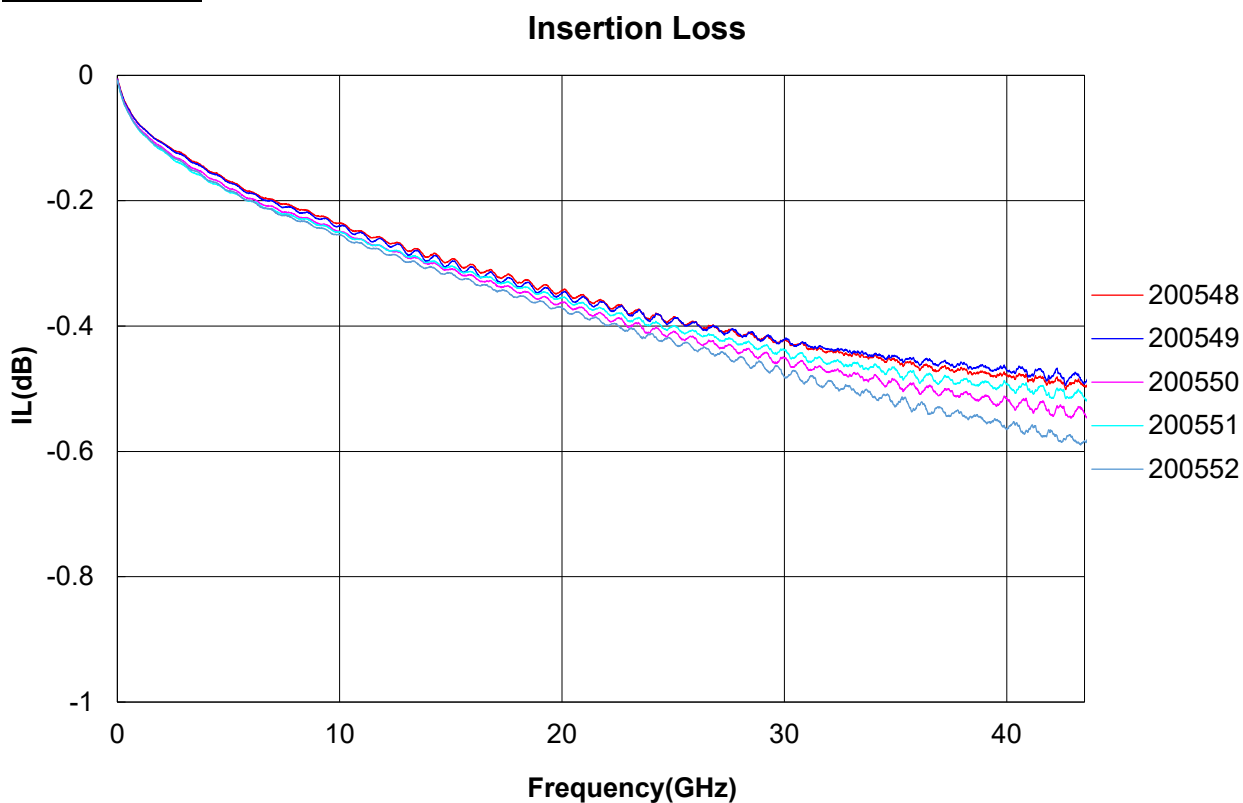
Description: 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End Option

Results: LL043-24SP-24SP-0152

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL(dB, min)
200548	1.16 @ 41.84 GHz	-22.50 @ 41.84 GHz	-0.50 @ 42.66 GHz
200549	1.19 @ 41.84 GHz	-21.13 @ 41.84 GHz	-0.49 @ 42.65 GHz
200550	1.16 @ 35.99 GHz	-22.67 @ 35.99 GHz	-0.55 @ 42.89 GHz
200551	1.17 @ 36.07 GHz	-21.95 @ 36.07 GHz	-0.52 @ 42.66 GHz
200552	1.18 @ 36.50 GHz	-21.85 @ 36.50 GHz	-0.59 @ 43.32 GHz

VSWR



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End OptionReturn LossInsertion Loss

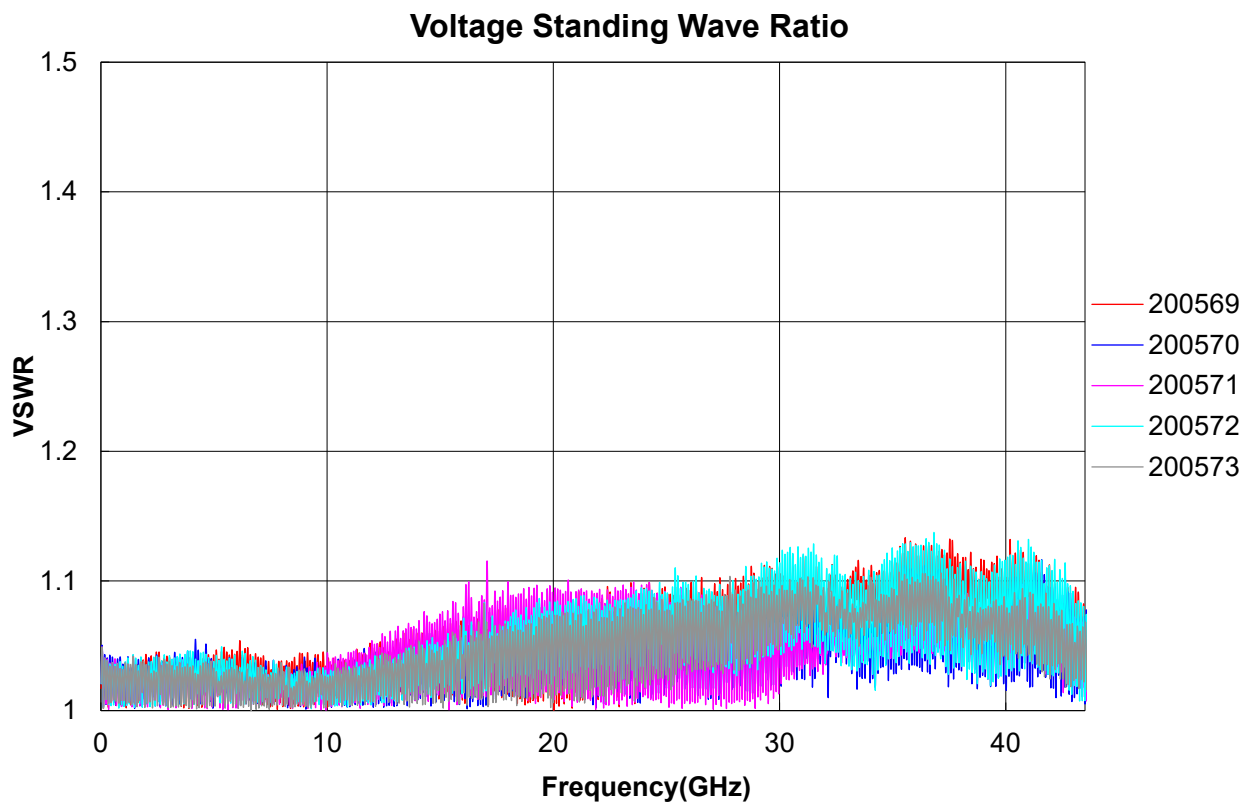
Series: LL043

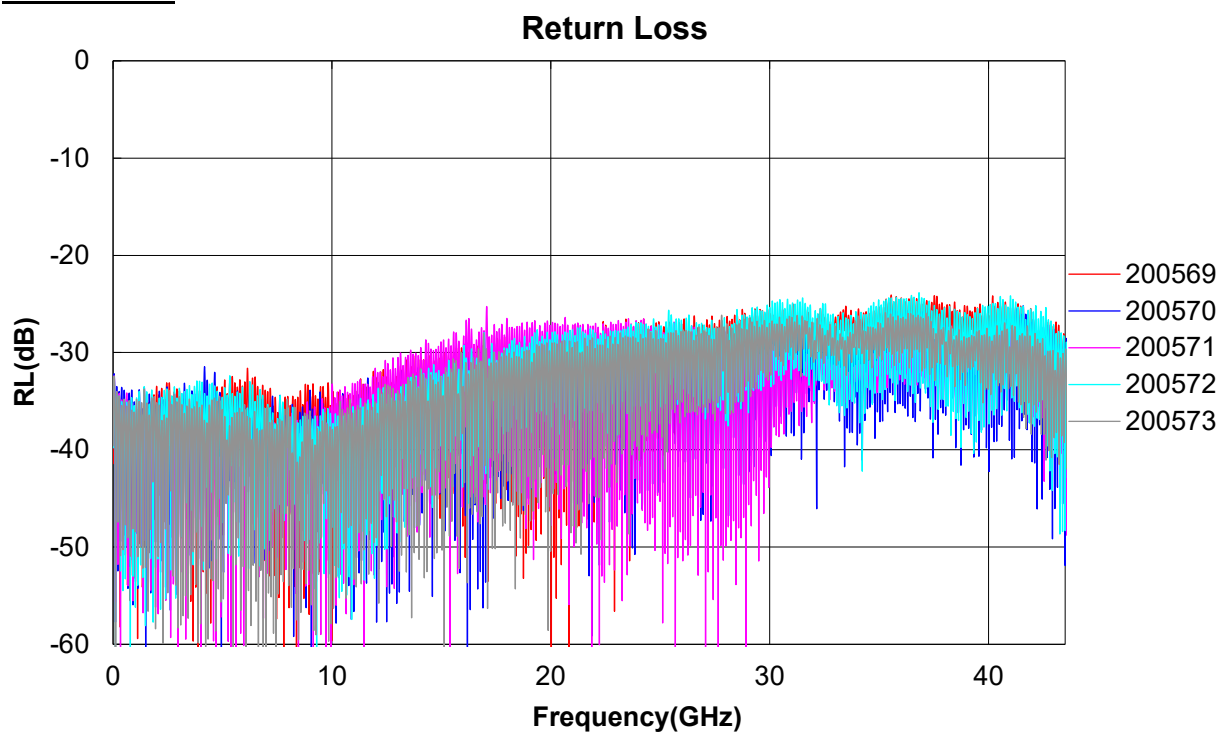
Description: 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End Option

Results: LL043-24SP-24SP-1000

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL (dB, min)
200569	1.13 @ 35.55 GHz	-24.08 @ 35.55 GHz	-3.16 @ 43.45 GHz
200570	1.12 @ 41.59 GHz	-25.19 @ 41.59 GHz	-3.02 @ 43.46 GHz
200571	1.12 @ 17.07 GHz	-25.26 @ 17.07 GHz	-3.12 @ 43.43 GHz
200572	1.14 @ 36.82 GHz	-23.84 @ 36.82 GHz	-3.02 @ 43.44 GHz
200573	1.11 @ 35.29 GHz	-25.90 @ 35.29 GHz	-3.05 @ 43.50 GHz

VSWR



Series: LL043**Description:** 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm End OptionReturn LossInsertion Loss