



RF Characterization Report

LL043-24BJ-24BJ-XXXX



Test Date: Jan 2025

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



Series: LL043

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

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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 plug adapters.

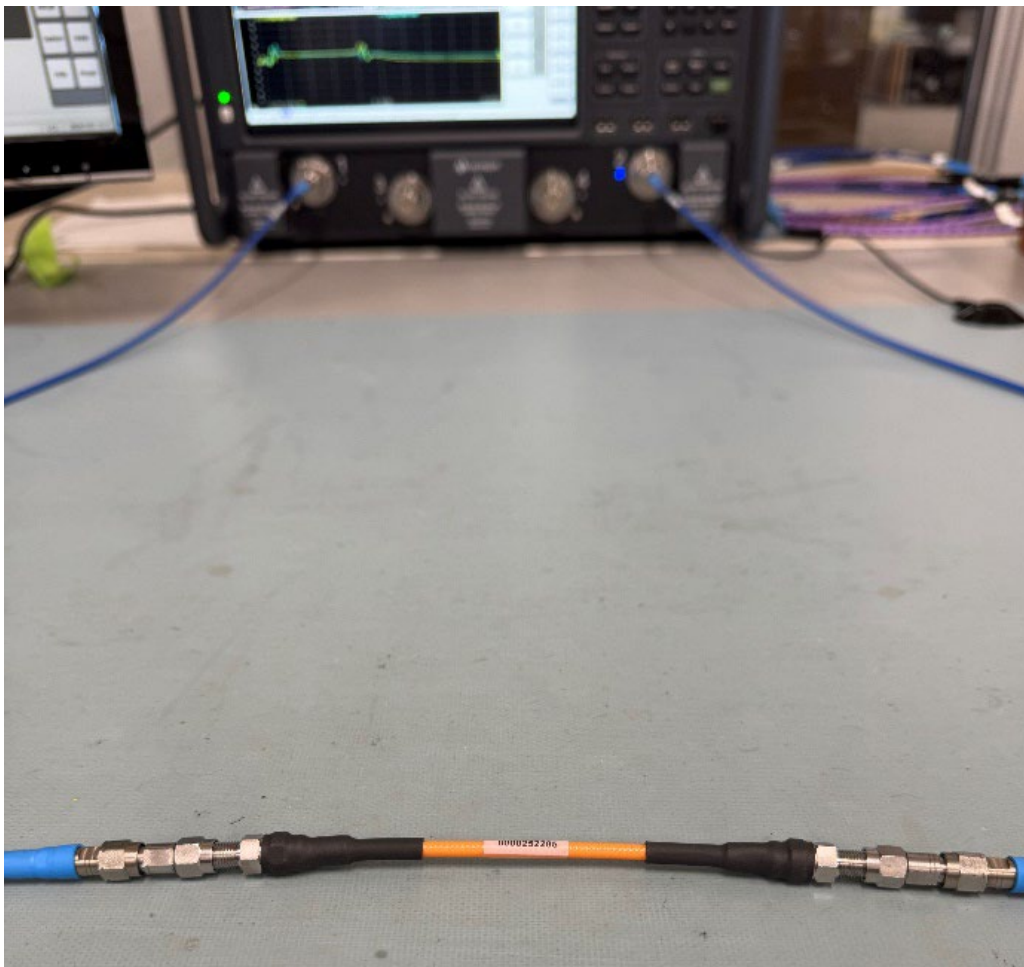
Series: LL043

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LL043-24BJ-24BJ-XXXX Test Definition

Part Number	End 1	End 2
LL043-24BJ-24BJ-0152	2.4mm Bulkhead Jack	2.4mm Bulkhead Jack
LL043-24BJ-24BJ-1000	2.4mm Bulkhead Jack	2.4mm Bulkhead Jack

Cable Under Test:



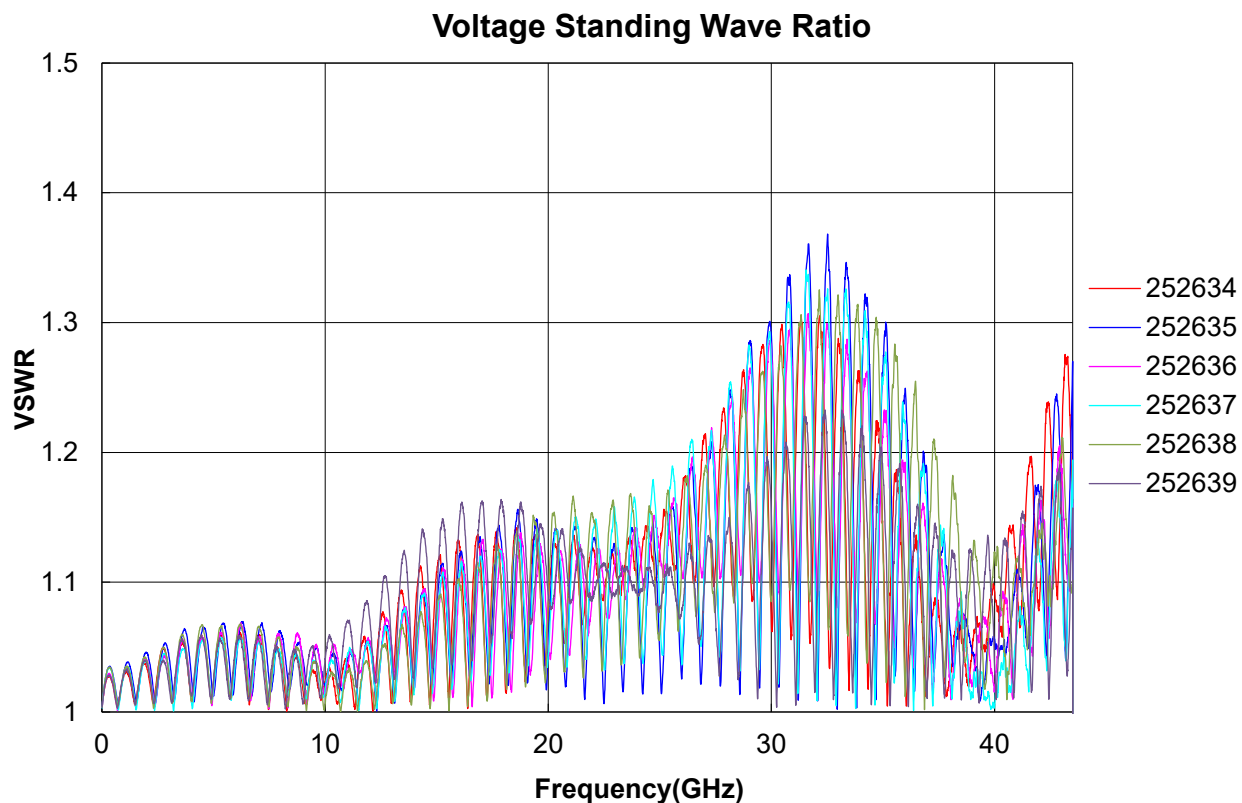
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Results: LL043-24BJ-24BJ-0152

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL(dB, min)
252634	1.31 @ 32.16 GHz	-17.56 @ 32.16 GHz	-0.73 @ 43.26 GHz
252635	1.37 @ 32.52 GHz	-16.17 @ 32.52 GHz	-0.70 @ 42.89 GHz
252636	1.31 @ 31.65 GHz	-17.52 @ 31.65 GHz	-0.68 @ 42.90 GHz
252637	1.34 @ 31.55 GHz	-16.74 @ 31.55 GHz	-0.66 @ 42.81 GHz
252638	1.33 @ 32.15 GHz	-17.08 @ 32.15 GHz	-0.68 @ 43.23 GHz
252639	1.23 @ 32.41 GHz	-19.64 @ 32.41 GHz	-0.68 @ 42.90 GHz

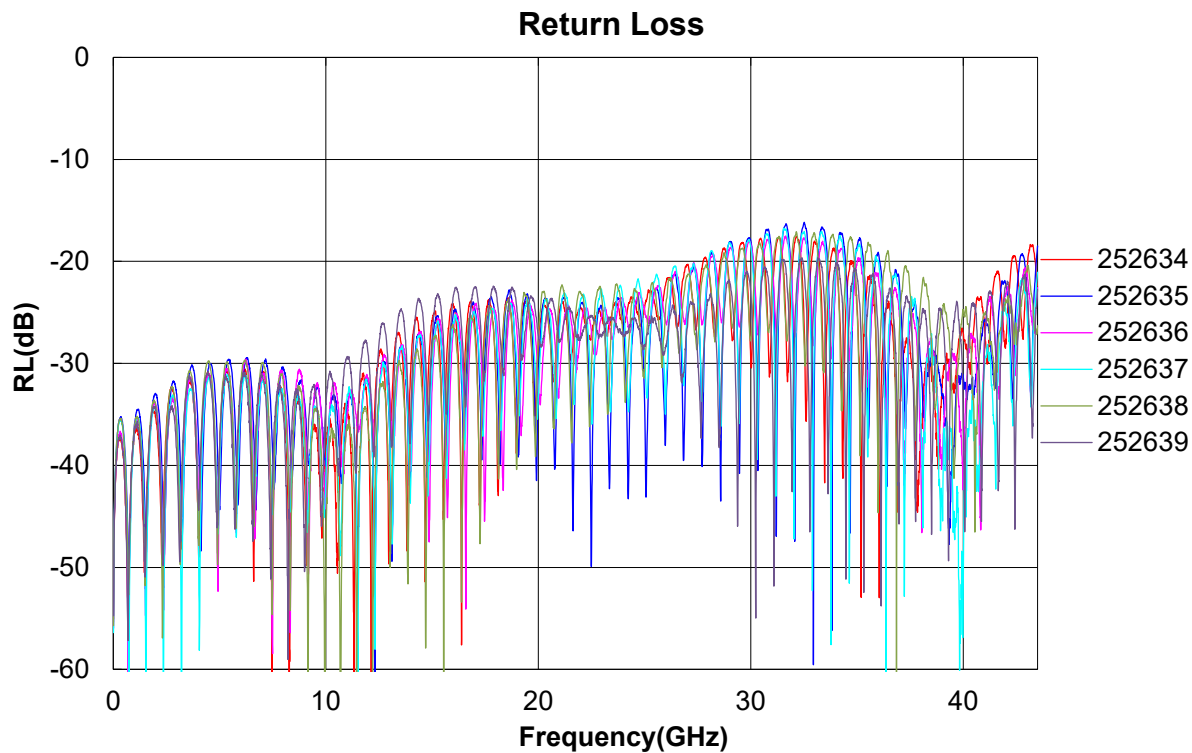
VSWR



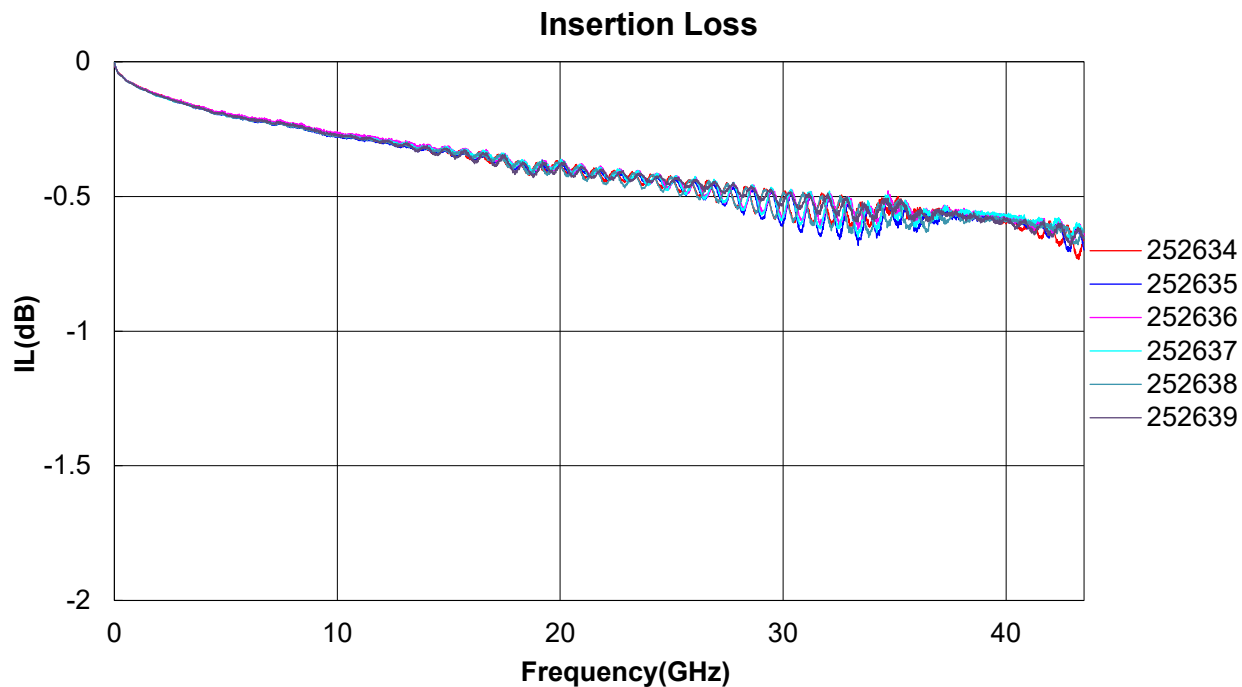
Series: LL043

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

Return Loss



Insertion Loss



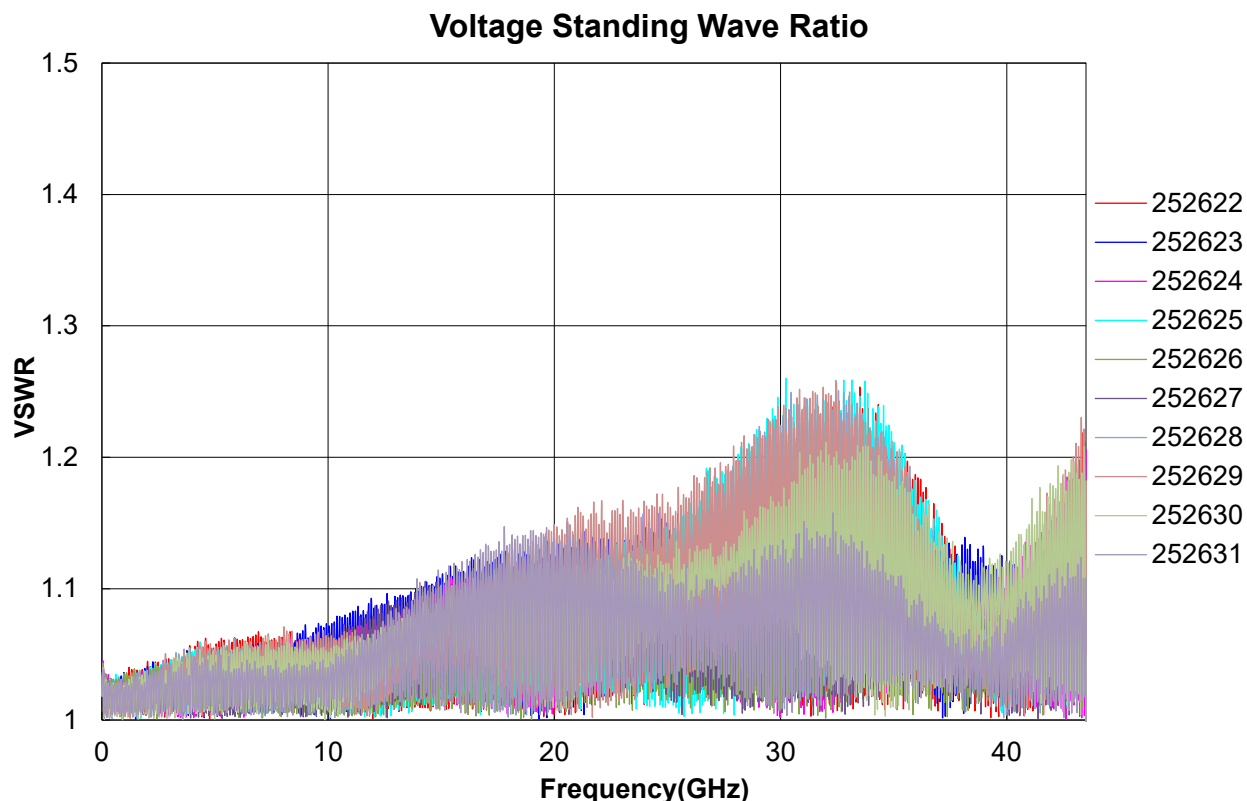
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Description: 50 Ohm, High-performance Microwave Cable Assembly, 2.40mm Bulkhead Jack End Option

Results: LL043-24BJ-24BJ-1000

Description: LL043 High Frequency RF Cable Assembly			
Sample	VSWR (max)	RL (dB, max)	IL (dB, min)
252622	1.25 @ 33.50 GHz	-18.98 @ 33.50 GHz	-3.04 @ 43.43 GHz
252623	1.19 @ 30.24 GHz	-21.16 @ 30.24 GHz	-3.00 @ 43.34 GHz
252624	1.21 @ 43.49 GHz	-20.61 @ 43.49 GHz	-3.05 @ 43.49 GHz
252625	1.26 @ 30.23 GHz	-18.77 @ 30.23 GHz	-3.04 @ 43.31 GHz
252626	1.22 @ 31.58 GHz	-20.07 @ 31.58 GHz	-3.04 @ 43.40 GHz
252627	1.19 @ 31.62 GHz	-21.28 @ 31.62 GHz	-3.02 @ 43.27 GHz
252628	1.26 @ 32.44 GHz	-18.83 @ 32.44 GHz	-3.03 @ 43.27 GHz
252629	1.26 @ 32.47 GHz	-18.88 @ 32.47 GHz	-3.05 @ 43.42 GHz
252630	1.21 @ 32.01 GHz	-20.40 @ 32.01 GHz	-3.08 @ 43.43 GHz
252631	1.16 @ 32.31 GHz	-22.72 @ 32.31 GHz	-3.01 @ 43.39 GHz

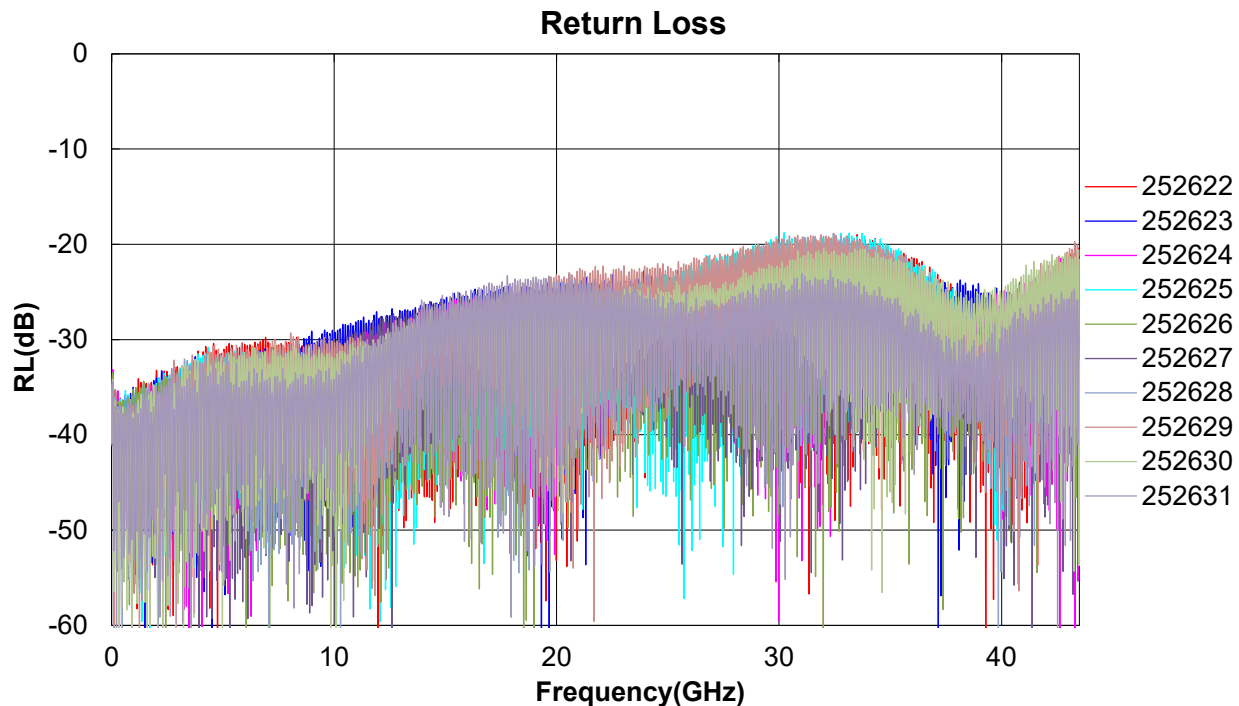
VSWR



Series: LL043

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Return Loss



Insertion Loss

