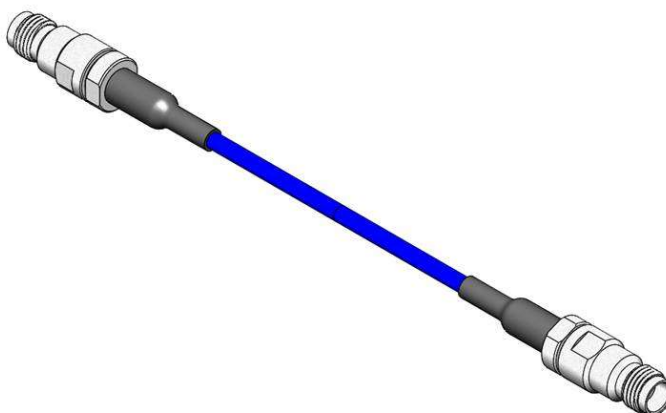




RF Characterization Report

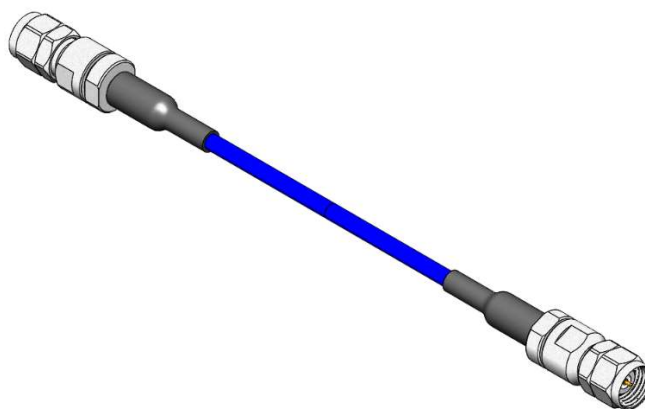
RF086-24SJ-24SJ-XXXX

Test Date: 27 September 2019



RF086-24SP-24SP-XXXX

Test Date: 27 September 2019



Description

**High Performance Microwave Cable Assembly, 2.4mm Connector
End, CCA-086-FFP, 50 Ohm, RF cable**

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End**Table of Contents**

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Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End**Test Setup Information****Scope:**

Provide insertion loss, return loss and standing wave ratio performance parameters for RF connector types terminated to RF086 series coaxial cable. Where requested, provide extended bandwidth and TDR information.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227A (10 MHz - 67 GHz)
Averaging Factor	0
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	50 GHz
Points	5000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A SOLT calibration is performed using a Keysight 85056A 2.4 mm kit.

Calibration Kit	Keysight 85056A 2.4 mm
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Adapter Use:

2.4 mm Female to 2.4 mm Male/Female adapters, used for the measurements of RF086-24SP-24SP and RF086-24SJ-24SJ, and the adapters effect are removed from the measurement.

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SJ-24SJ-0152 Test Definition

Part Number	Length	End 1	End 2
RF086-24SJ-24SJ-0152	152 mm	SMA, 2.4 Straight Jack	SMA, 2.4 Straight Jack

Assembly Under Test:



Rating Opportunity:

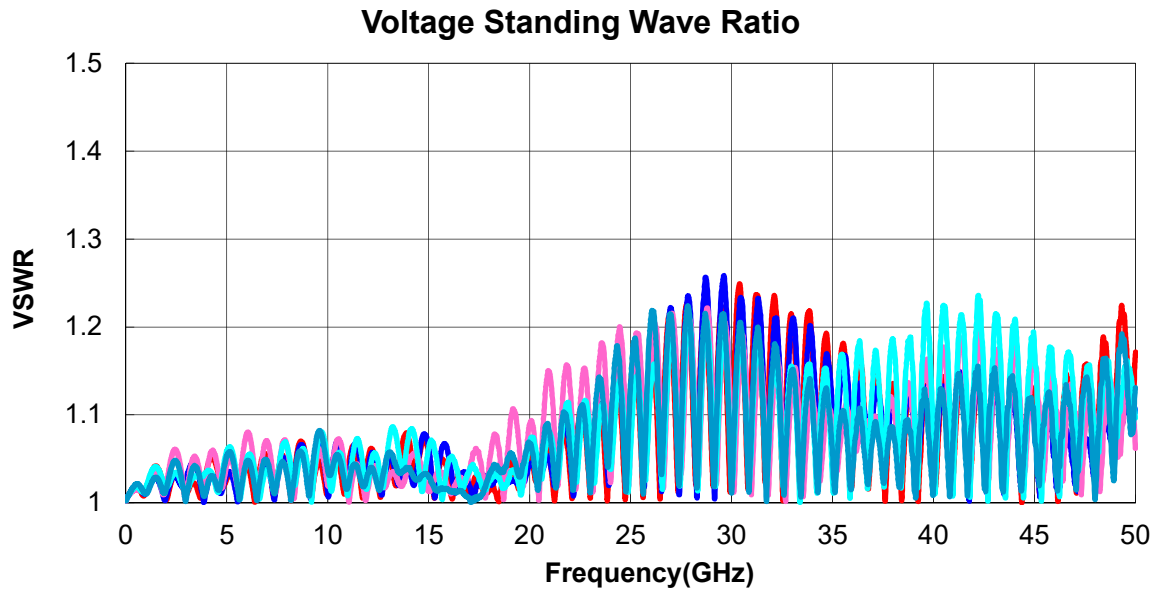
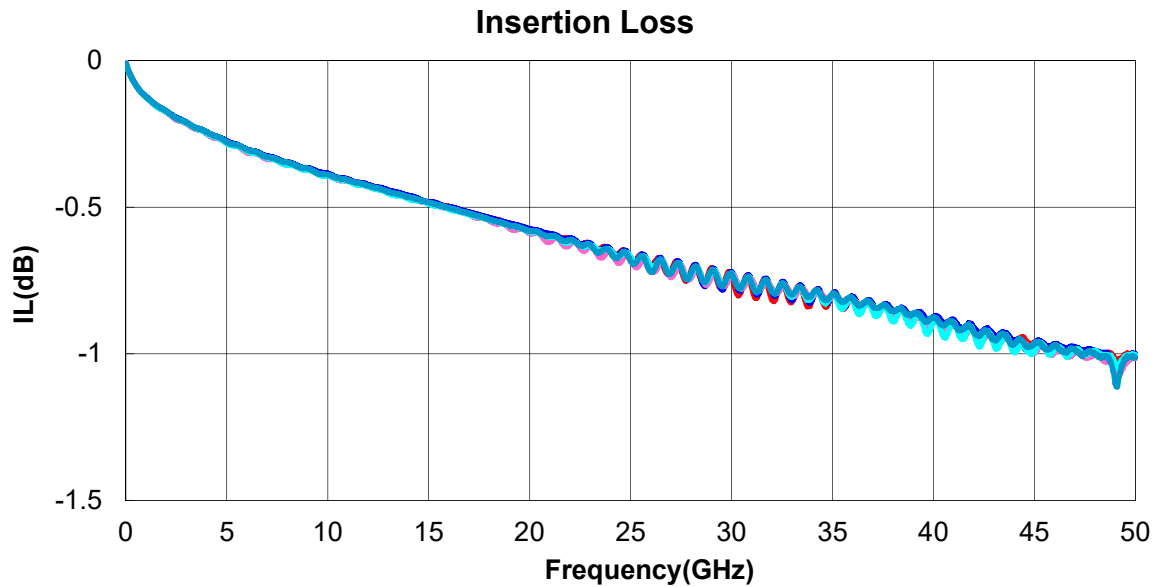
Not Available.

Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SJ-24SJ-0152

Sample	VSWR (max)	IL (min)
1	1.25 @ 30.39 GHz	-1.03 dB @ 49.09 GHz
2	1.26 @ 29.61 GHz	-1.07 dB @ 49.09 GHz
3	1.22 @ 28.79 GHz	-1.07 dB @ 49.10 GHz
4	1.24 @ 42.21 GHz	-1.05 dB @ 49.10 GHz
5	1.22 @ 27.82 GHz	-1.11 dB @ 49.07 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector EndVSWRInsertion Loss

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SP-24SP-0152 Test Definition

Part Number	Length	End 1	End 2
RF086-24SP-24SP-0152	152 mm	SMA, 2.4 Straight Plug	SMA, 2.4 Straight Plug

Assembly Under Test:



Rating Opportunity:

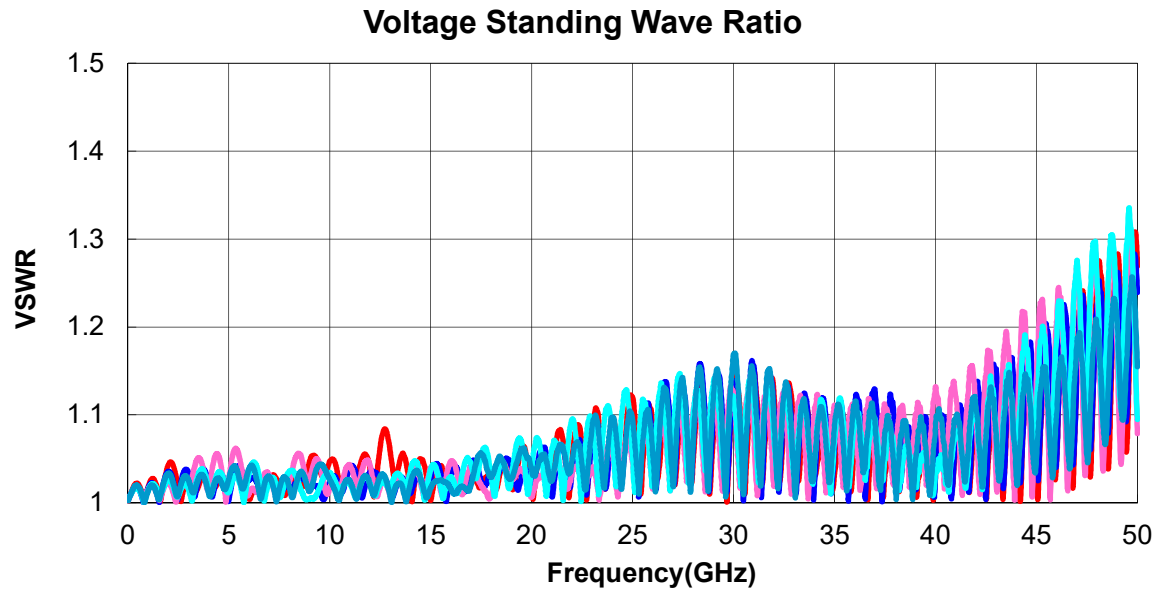
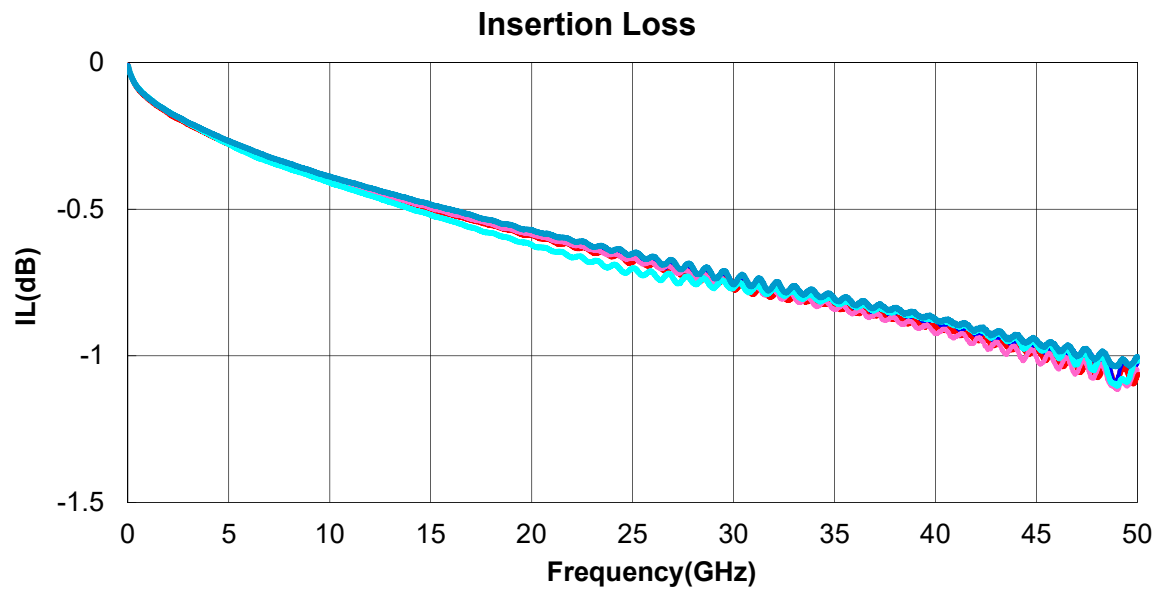
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Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SP-24SP-0152

Sample	SWR (max)	IL (min)
1	1.31 @ 49.88 GHz	-1.10 dB @ 48.92 GHz
2	1.28 @ 49.85 GHz	-1.10 dB @ 48.89 GHz
3	1.31 @ 49.58 GHz	-1.12 dB @ 48.96 GHz
4	1.34 @ 49.58 GHz	-1.10 dB @ 48.96 GHz
5	1.26 @ 49.73 GHz	-1.04 dB @ 48.92 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector EndVSWRInsertion Loss

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SJ-24SJ-0500 Test Definition

Part Number	Length	End 1	End 2
RF086-24SJ-24SJ-0500	500 mm	SMA, 2.4 Straight Jack	SMA, 2.4 Straight Jack

Assembly Under Test:



Rating Opportunity:

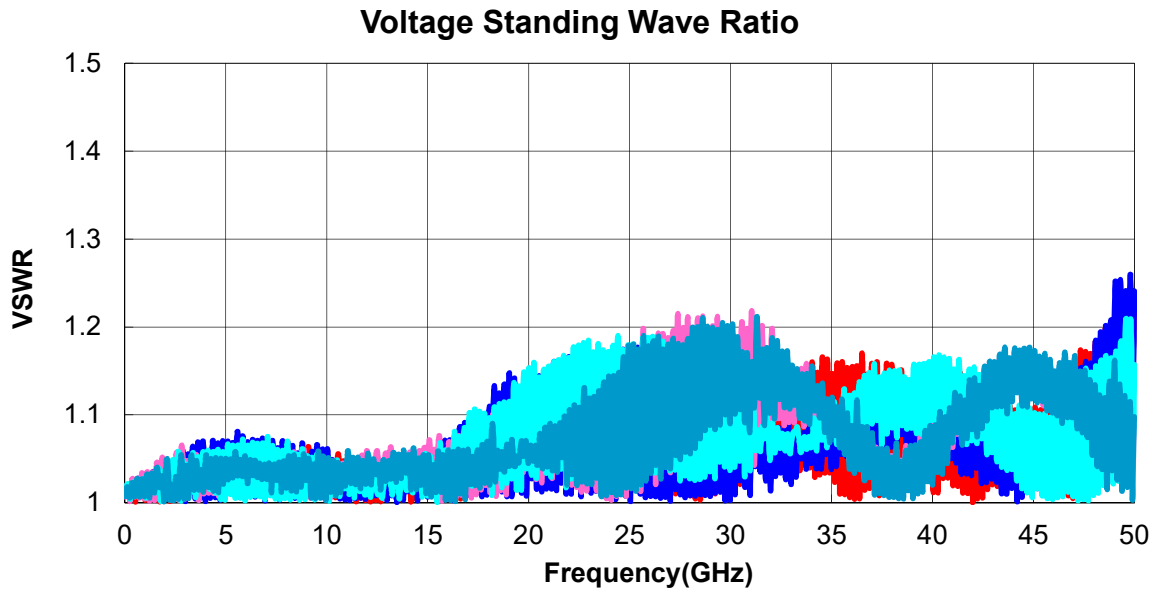
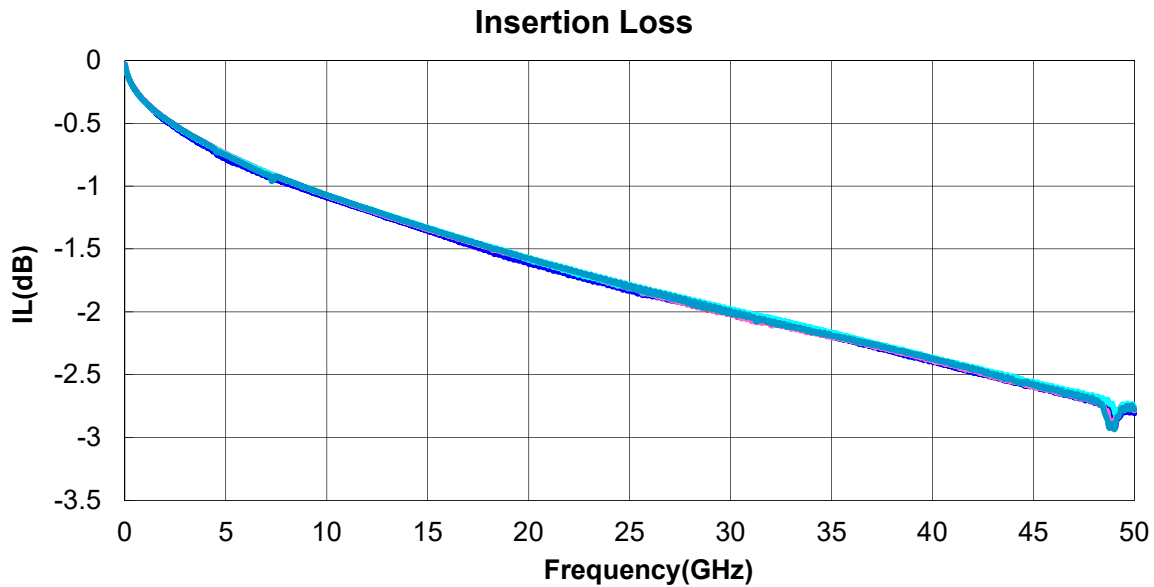
Not Available.

Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SJ-24SJ-0500

Sample	VSWR (max)	IL (min)
1	1.23 @ 49.77 GHz	-2.81 dB @ 49.03 GHz
2	1.26 @ 49.79 GHz	-2.92 dB @ 49.03 GHz
3	1.22 @ 31.04 GHz	-2.89 dB @ 48.80 GHz
4	1.21 @ 49.58 GHz	-2.81 dB @ 49.05 GHz
5	1.21 @ 31.30 GHz	-2.94 dB @ 49.00 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector EndVSWRInsertion Loss

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SP-24SP-0500 Test Definition

Part Number	Length	End 1	End 2
RF086-24SP-24SP-0500	500 mm	SMA, 2.4 Straight Plug	SMA, 2.4 Straight Plug

Assembly Under Test:



Rating Opportunity:

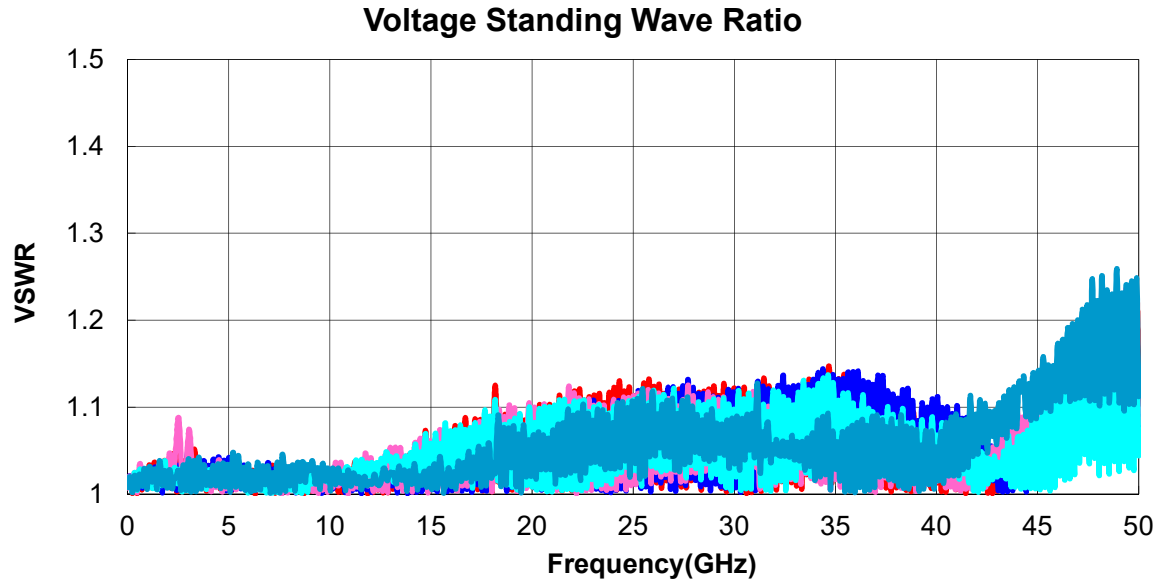
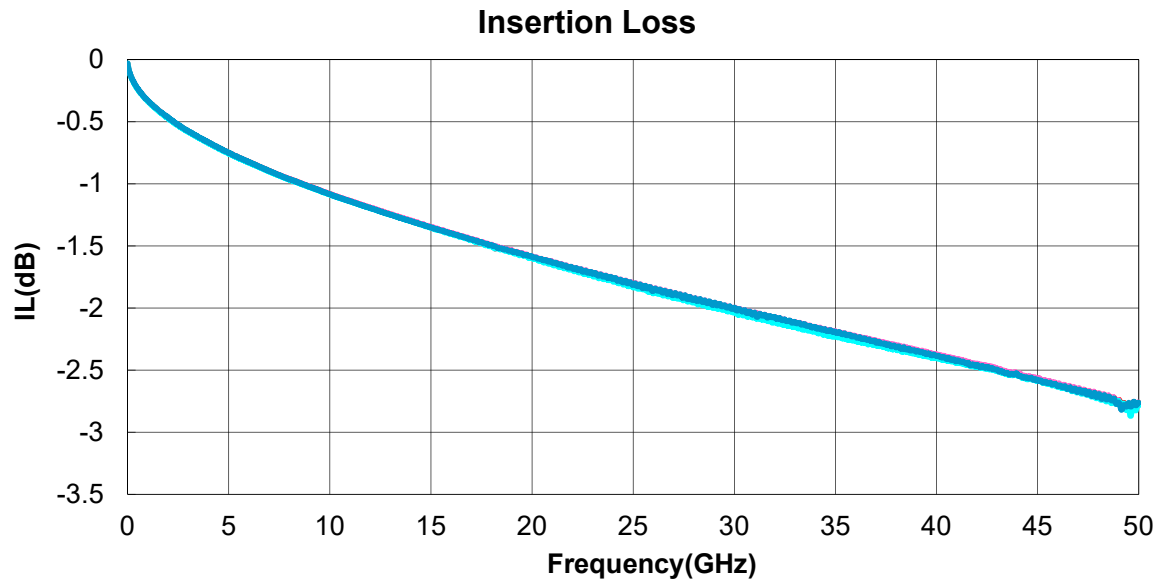
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Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SP-24SP-0500

Sample	VSWR (max)	IL (min)
1	1.23 @ 49.40 GHz	-2.81 dB @ 49.40 GHz
2	1.20 @ 49.37 GHz	-2.83 dB @ 49.58 GHz
3	1.24 @ 49.38 GHz	-2.84 dB @ 49.60 GHz
4	1.23 @ 49.39 GHz	-2.87 dB @ 49.61 GHz
5	1.26 @ 49.82 GHz	-2.82 dB @ 49.15 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector EndVSWRInsertion Loss

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SJ-24SJ-1000 Test Definition

Part Number	Length	End 1	End 2
RF086-24SJ-24SJ-1000	1000 mm	SMA, 2.4 Straight Jack	SMA, 2.4 Straight Jack

Assembly Under Test:



Rating Opportunity:

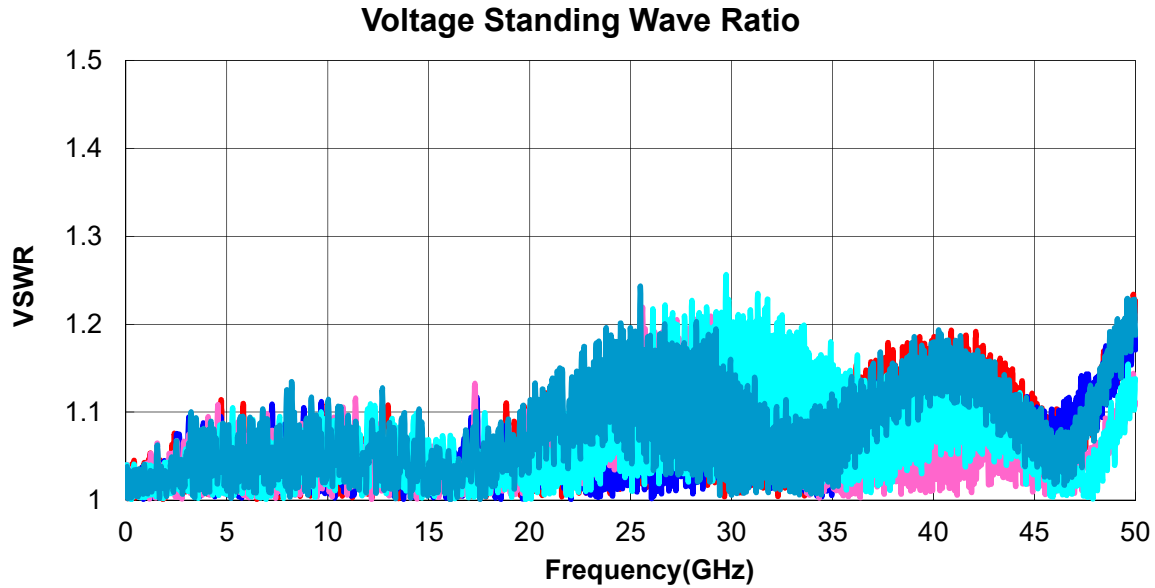
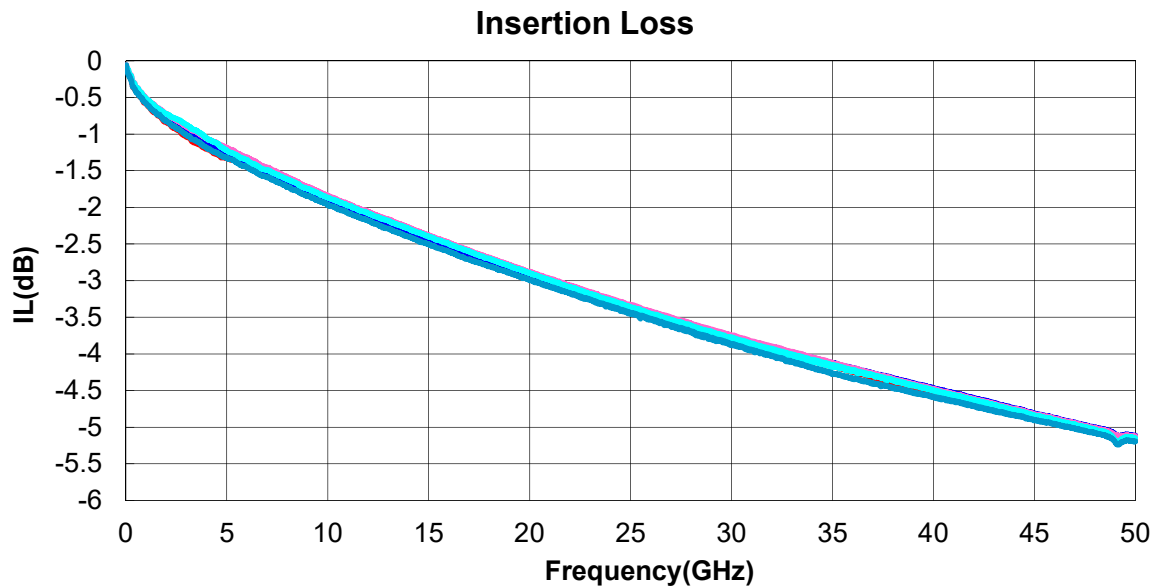
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Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SJ-24SJ-1000

Sample	VSWR (max)	IL (min)
1	1.23 @ 49.89 GHz	-5.19 dB @ 49.03 GHz
2	1.20 @ 49.85 GHz	-5.12 dB @ 49.21 GHz
3	1.22 @ 25.58 GHz	-5.13 dB @ 49.22 GHz
4	1.26 @ 29.72 GHz	-5.20 dB @ 49.13 GHz
5	1.24 @ 25.48 GHz	-5.24 dB @ 49.15 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End**VSWR****Insertion Loss**

Series: RF086

Description: High Performance Microwave Cable Assembly, 2.4 mm Connector End

RF086-24SP-24SP-1000 Test Definition

Part Number	Length	End 1	End 2
RF086-24SP-24SP-1000	1000 mm	SMA, 2.4 Straight Plug	SMA, 2.4 Straight Plug

Assembly Under Test:



Rating Opportunity:

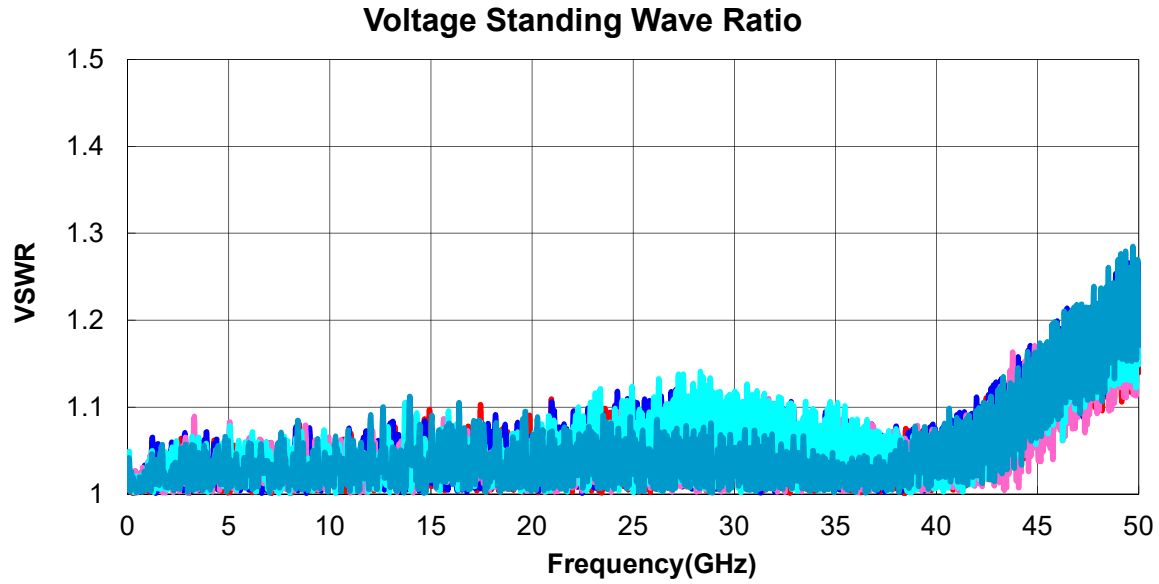
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Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 50 GHz in the RF086 datasheet. The samples meet the specification for VSWR.

Results: RF086-24SP-24SP-1000

Sample	SWR (max)	IL (min)
1	1.25 @ 49.46 GHz	-5.34 dB @ 48.97 GHz
2	1.27 @ 49.96 GHz	-5.33 dB @ 49.95 GHz
3	1.24 @ 48.96 GHz	-5.15 dB @ 49.30 GHz
4	1.23 @ 49.44 GHz	-5.18 dB @ 49.91 GHz
5	1.28 @ 49.72 GHz	-5.29 dB @ 49.98 GHz

Series: RF086**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End**VSWR****Insertion Loss**