



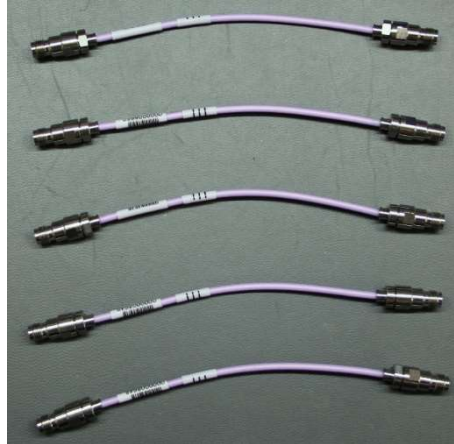
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## RF Characterization Report

**RF23C-24SJ-24SJ-0305**

Test Date: 17 Jan 2019



**RF23C-24SP-24SP-0305**

Test Date: 17 Jan 2019



### Description

**High Performance Microwave Cable Assembly, 2.4mm Connector  
End, 23 AWG, 50 Ohm, Sold Dielectric, Low Loss, Copper Foil Shield  
Coax**

Series: RF23C

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

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**Series:** RF23C**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 RF23C 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 Female adapters, used for the measurements of RF23C-24SP-24SP-0305.

**Series: RF23C**
**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End

**RF23C-24SJ-24SJ-0305 Test Definition**

Part Number	Length	End 1	End 2
RF23C-24SJ-24SJ-0305	305 mm	SMA, 2.4 Straight Jack	SMA, 2.4 Straight Jack

**Assembly Under Test:**

**Rating Opportunity:**

Not Available.

**Conclusion:**

The maximum return loss is specified as -13.97 dB from DC to 50 GHz in the R23C datasheet. The responding maximum SWR is 1.5 then. The samples meet the specification on the return loss and VSWR.

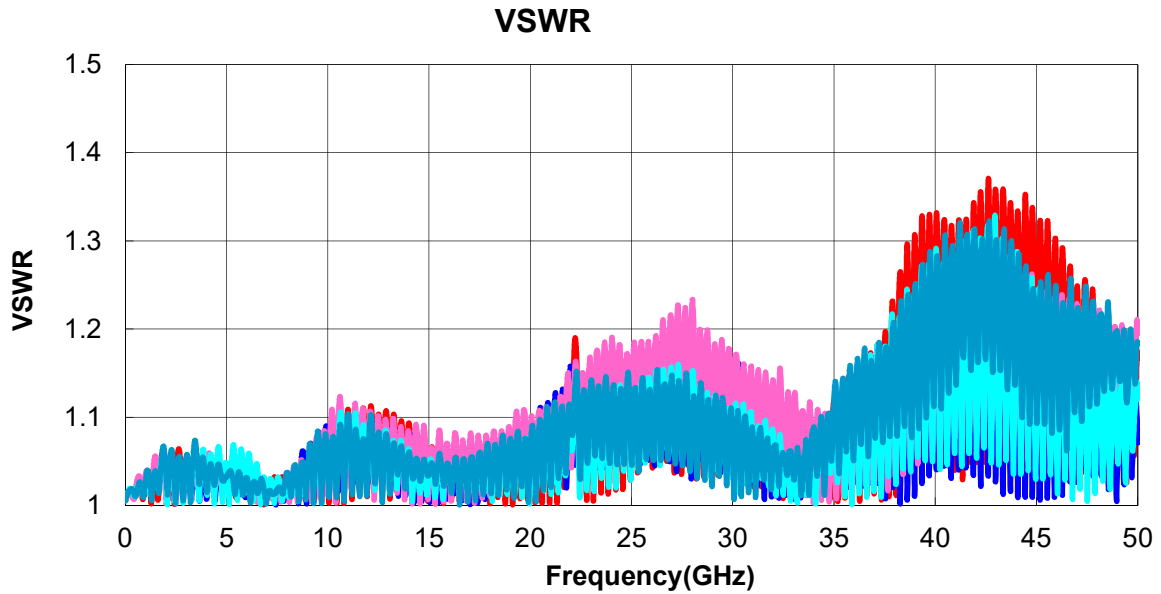
**Results: RF23C-24SJ-24SJ-0305**

<b>Description: SMA 2.4 Jack to RF23C Microwave Cable to SMA 2.4 Jack</b>			
<b>Sample</b>	<b>VSWR (max)</b>	<b>RL (max)</b>	<b>IL (min)</b>
1	1.37 @ 42.62 GHz	-16.11 dB @ 42.62 GHz	-2.21 dB @ 49.21 GHz
2	1.29 @ 42.43 GHz	-18.07 dB @ 42.43 GHz	-2.29 dB @ 49.42 GHz
3	1.26 @ 44.76 GHz	-18.71 dB @ 44.76 GHz	-2.32 dB @ 49.22 GHz
4	1.33 @ 42.94 GHz	-16.99 dB @ 42.94 GHz	-2.22 dB @ 49.42 GHz
5	1.32 @ 42.66 GHz	-17.15 dB @ 42.66 GHz	-2.22 dB @ 49.56 GHz

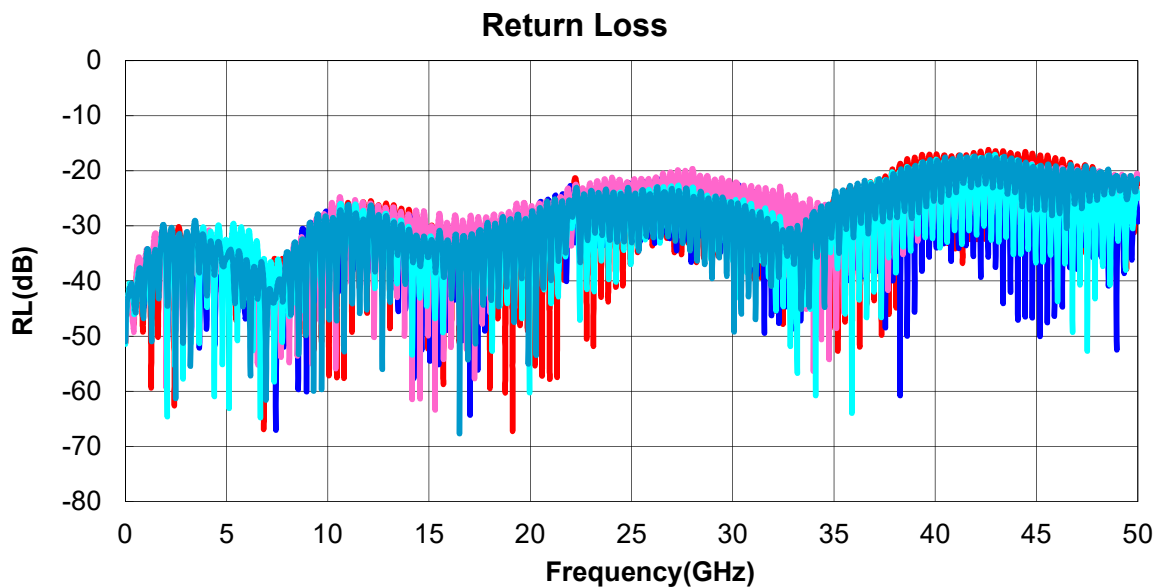
Series: RF23C

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

### VSWR



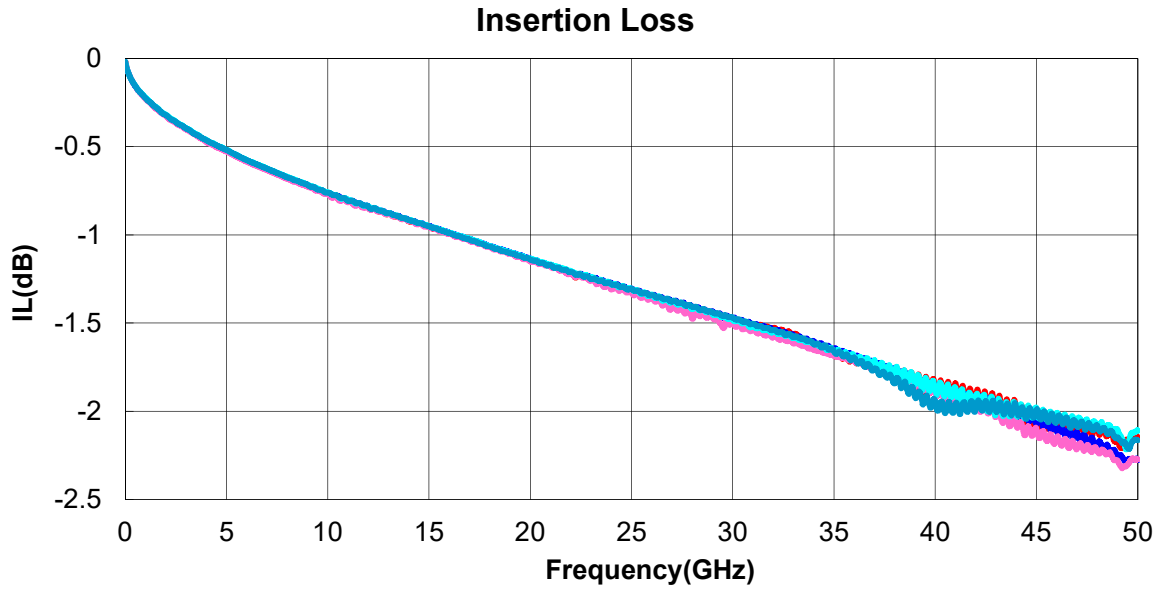
### Return Loss



**Series:** RF23C

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

### Insertion Loss



**Series: RF23C**
**Description:** High Performance Microwave Cable Assembly, 2.4 mm Connector End

**RF23C-24SP-24SP-0305 Test Definition**

Part Number	Length	End 1	End 2
RF23C-24SP-24SP-0305	305 mm	SMA, 2.4 Straight Plug	SMA, 2.4 Straight Plug

**Assembly Under Test:**

**Rating Opportunity:**

Not Available.

**Conclusion:**

The maximum return loss is specified as -13.97 dB from DC to 50 GHz in the R23C datasheet. The responding maximum SWR is 1.5 then. The samples meet the specification on the return loss and VSWR.

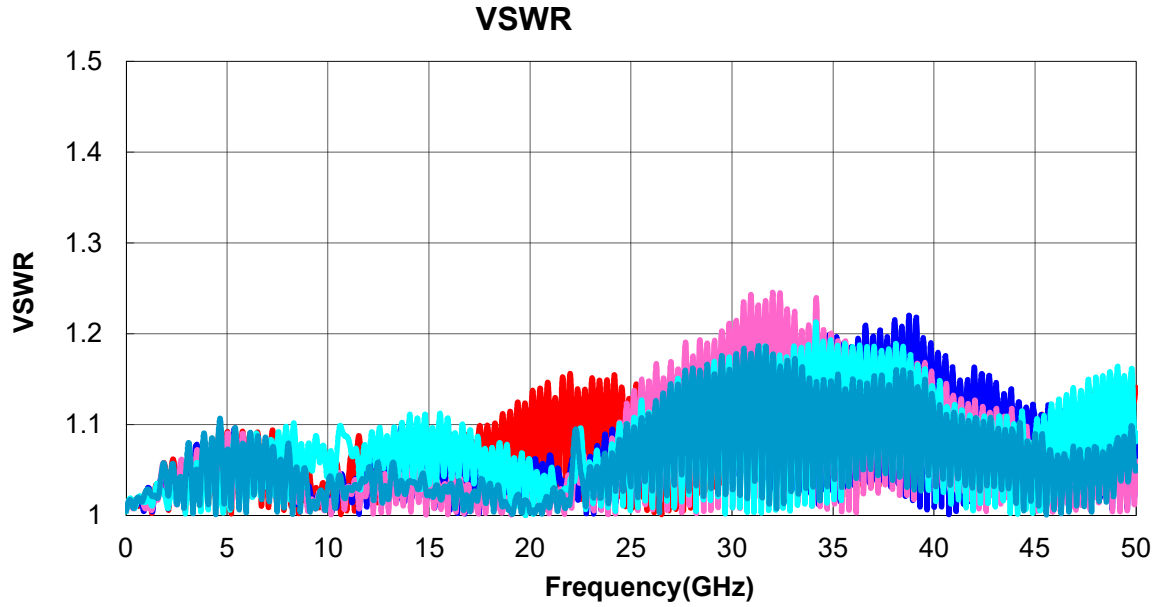
**Results: RF23C-24SP-24SP-0305**

<b>Description: SMA 2.4 Plug to RF23C Microwave Cable to SMA 2.4 Plug</b>			
<b>Sample</b>	<b>SWR (max)</b>	<b>RL (max)</b>	<b>IL (min)</b>
1	1.26 @ 38.14 GHz	-21.69 dB @ 38.14 GHz	-2.07 dB @ 49.37 GHz
2	1.34 @ 38.76 GHz	-20.06 dB @ 38.76 GHz	-2.12 dB @ 49.41 GHz
3	1.25 @ 32.01 GHz	-19.22 dB @ 32.01 GHz	-2.06 dB @ 49.24 GHz
4	1.17 @ 34.15 GHz	-20.32 dB @ 34.15 GHz	-2.07 dB @ 49.84 GHz
5	1.24 @ 31.31 GHz	-21.35 dB @ 31.31 GHz	-2.08 dB @ 49.84 GHz

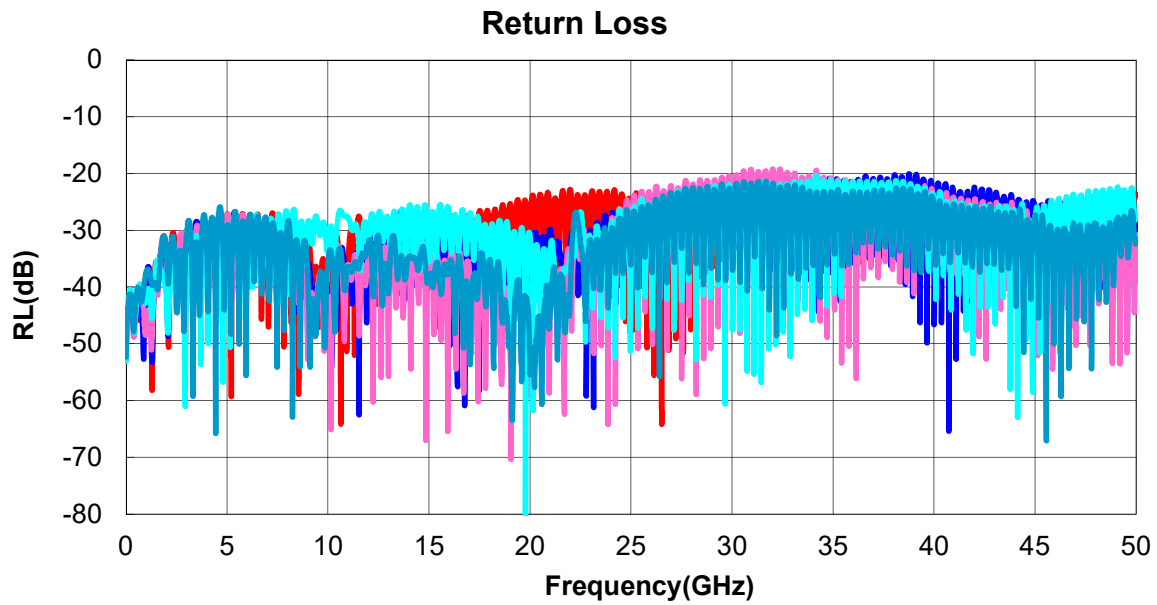
Series: RF23C

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

VSWR



Return Loss



Series: RF23C

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

Insertion Loss

