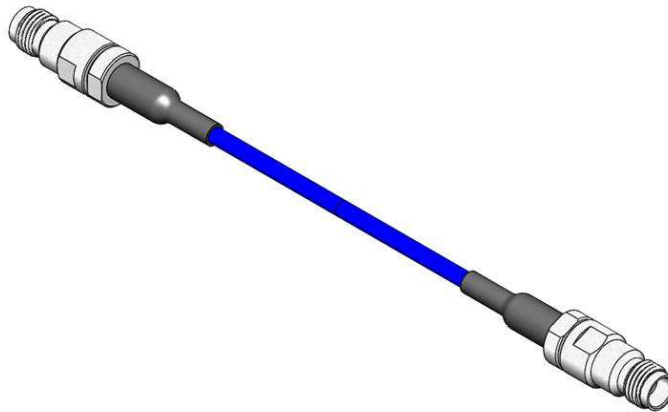




## RF Characterization Report

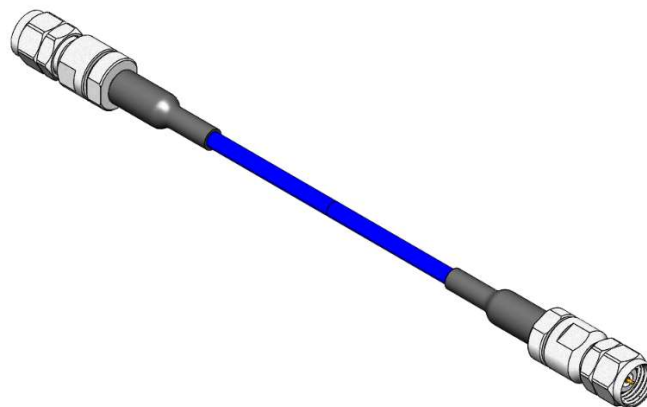
**RF085-92SJ-92SJ-XXXX**

Test Date: 11 February 2020



**RF085-92SP-92SP-XXXX**

Test Date: 11 February 2020



### Description

**High Performance Microwave Cable Assembly, 2.92mm Connector  
End, CCA-085-PTFE, 50 Ohm, RF cable**

Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

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**Series:** RF085**Description:** High Performance Microwave Cable Assembly, 2.92 mm Connector End

## Test Setup Information

### Scope:

Provide insertion loss and standing wave ratio performance parameters for RF connector types terminated to RF085 series coaxial cable.

### Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B (10 MHz - 67 GHz)
Averaging Factor	0
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	40 GHz
Points	4000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

### Calibration Type:

A Keysight ECAL calibration is performed using the Keysight ECAL 4692A kit.

Calibration Kit	Keysight ECAL 4692A
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### Adapter Use:

1.85 mm Female to 2.92 mm Male/Female adapters and 2.92 mm Female /Female adapters were used for the measurements of RF085-92SP-92SP and RF085-92SJ-92SJ. The adapter effects were removed from the measurement using the PNA's Fixture Removal method.

**Series: RF085**
**Description:** High Performance Microwave Cable Assembly, 2.92 mm Connector End

**RF085-92SJ-92SJ-0152 Test Definition**

Part Number	Length	End 1	End 2
RF085-92SJ-92SJ-0152	152 mm	SMA, 2.92 Straight Jack	SMA, 2.92 Straight Jack

**Assembly Under Test:**

**Conclusion:**

The maximum VSWR is specified as 1.4:1 from DC to 40 GHz in the RF085 datasheet. The samples meet the specification for VSWR.

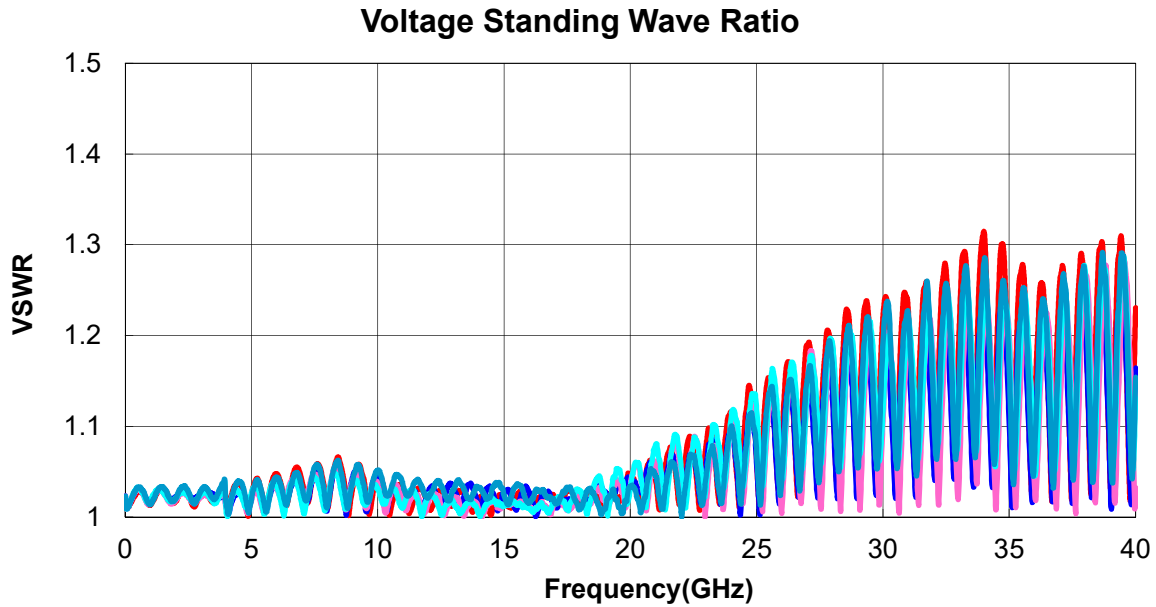
**Results: RF085-92SJ-92SJ-0152**

Sample	VSWR (max)	IL (max)
1	1.31 @ 33.99 GHz	0.91 dB @ 39.40 GHz
2	1.26 @ 39.42 GHz	0.88 dB @ 39.41 GHz
3	1.28 @ 39.56 GHz	0.90 dB @ 39.58 GHz
4	1.29 @ 39.52 GHz	0.89 dB @ 39.50 GHz
5	1.29 @ 38.69 GHz	0.90 dB @ 39.50 GHz

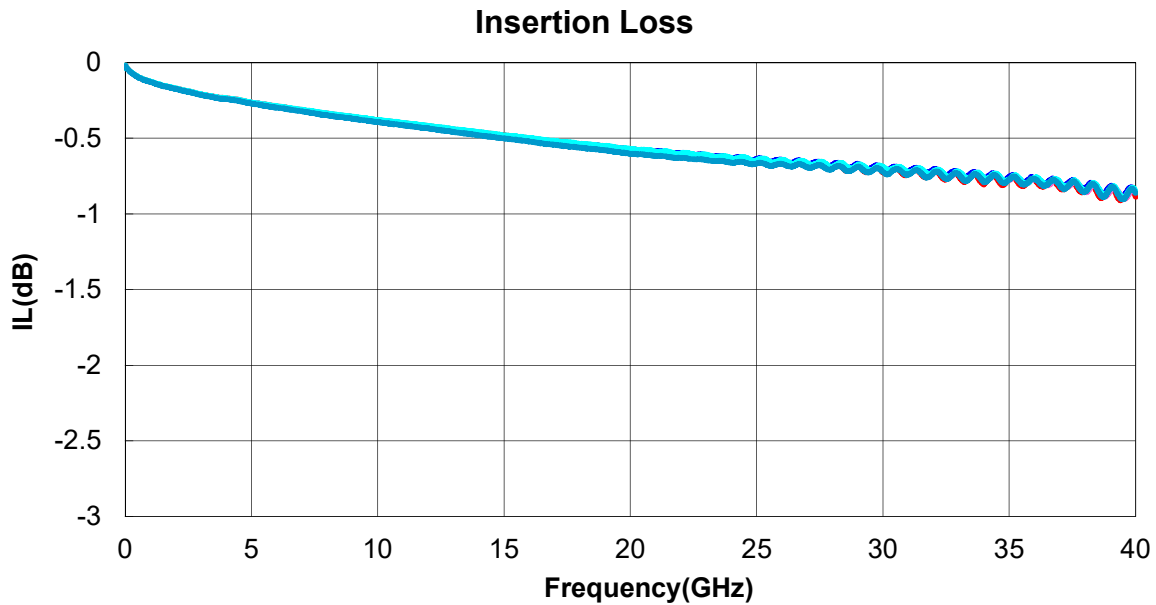
Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

### VSWR



### Insertion Loss



**Series: RF085**
**Description:** High Performance Microwave Cable Assembly, 2.92 mm Connector End

**RF085-92SP-92SP-0152 Test Definition**

Part Number	Length	End 1	End 2
RF085-92SP-92SP-0152	152 mm	SMA, 2.92 Straight Plug	SMA, 2.92 Straight Plug

**Assembly Under Test:**

**Conclusion:**

The maximum VSWR is specified as 1.4:1 from DC to 40 GHz in the RF085 datasheet. The samples meet the specification for VSWR.

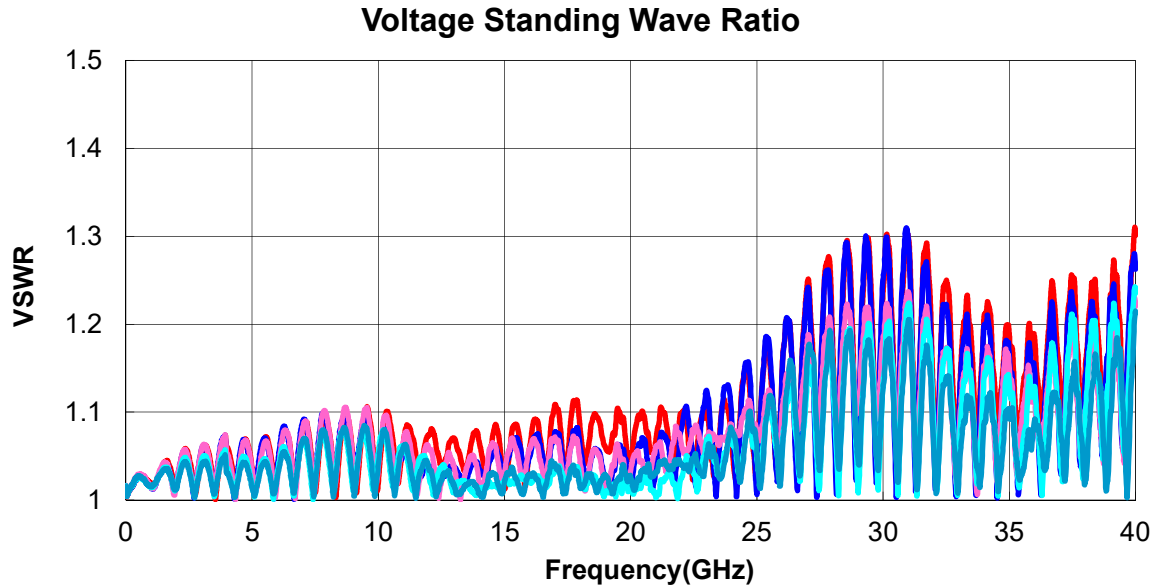
**Results: RF085-92SP-92SP-0152**

Sample	VSWR (max)	IL (max)
1	1.31 @ 39.97 GHz	0.93 dB @ 39.98 GHz
2	1.31 @ 30.92 GHz	0.92 dB @ 39.92 GHz
3	1.24 @ 30.98 GHz	0.90 dB @ 39.98 GHz
4	1.24 @ 39.97 GHz	0.90 dB @ 39.98 GHz
5	1.21 @ 39.99 GHz	0.91 dB @ 39.99 GHz

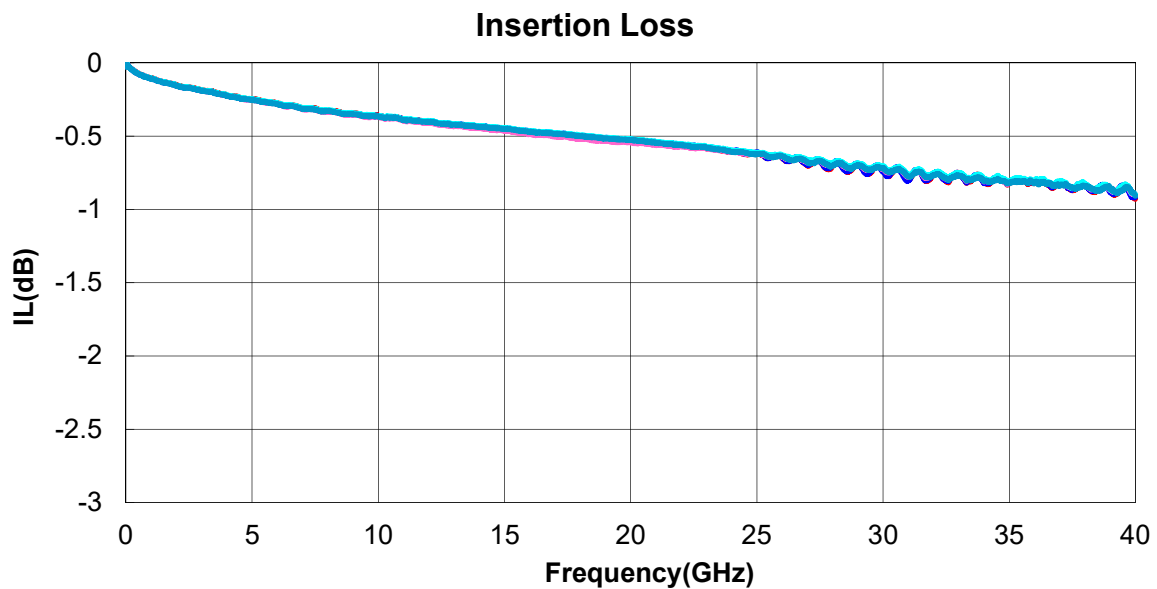
Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

### VSWR



### Insertion Loss



Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

### RF085-92SJ-92SJ-1000 Test Definition

Part Number	Length	End 1	End 2
RF085-92SJ-92SJ-1000	1000 mm	SMA, 2.92 Straight Jack	SMA, 2.92 Straight Jack

#### Assembly Under Test:



#### Conclusion:

The maximum VSWR is specified as 1.4:1 from DC to 40 GHz in the RF085 datasheet. The samples meet the specification for VSWR.

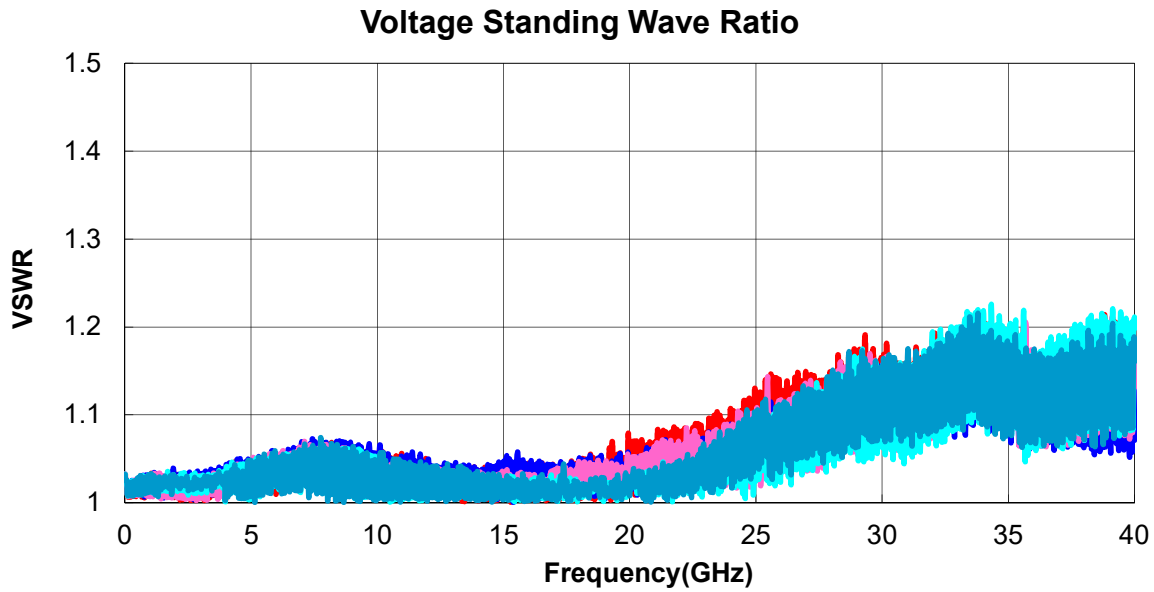
#### Results: RF085-92SJ-92SJ-1000

Sample	VSWR (max)	IL (max)
1	1.21 @ 38.81 GHz	5.02 dB @ 39.98 GHz
2	1.19 @ 33.77 GHz	4.94 dB @ 39.96 GHz
3	1.21 @ 39.12 GHz	5.04 dB @ 39.98 GHz
4	1.23 @ 34.33 GHz	4.98 dB @ 39.99 GHz
5	1.22 @ 33.79 GHz	5.04 dB @ 39.99 GHz

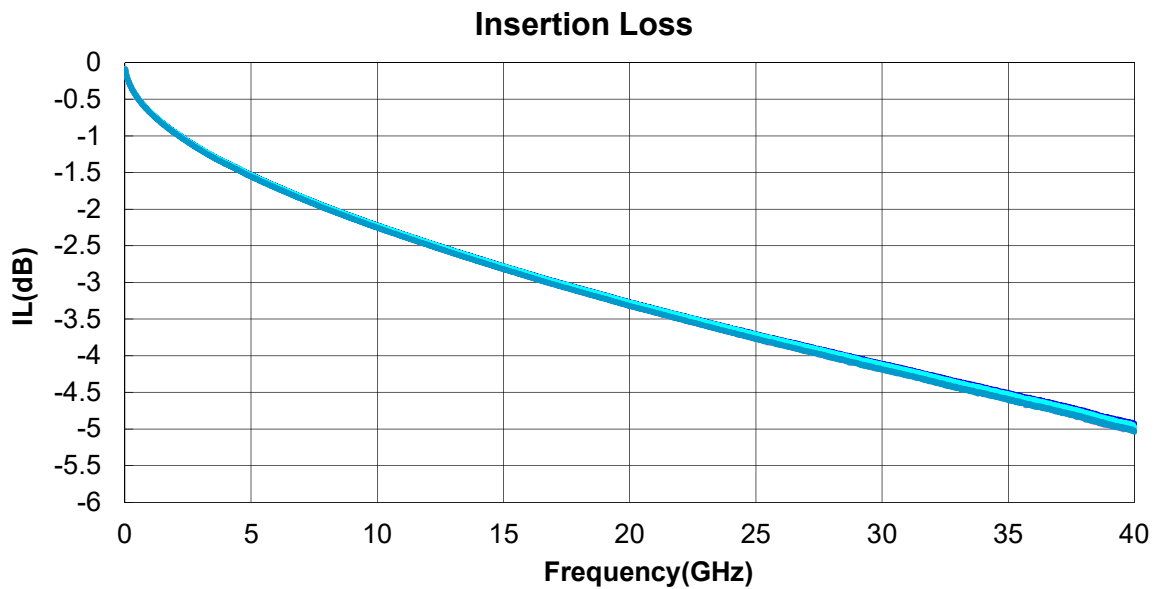
Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

### VSWR



### Insertion Loss



**Series:** RF085

**Description:** High Performance Microwave Cable Assembly, 2.92 mm Connector End

**RF085-92SP-92SP-1000 Test Definition**

Part Number	Length	End 1	End 2
RF085-92SP-92SP-1000	1000 mm	SMA, 2.92 Straight Plug	SMA, 2.92 Straight Plug

**Assembly Under Test:**



**Conclusion:**

The maximum VSWR is specified as 1.4:1 from DC to 40 GHz in the RF085 datasheet. The samples meet the specification for VSWR.

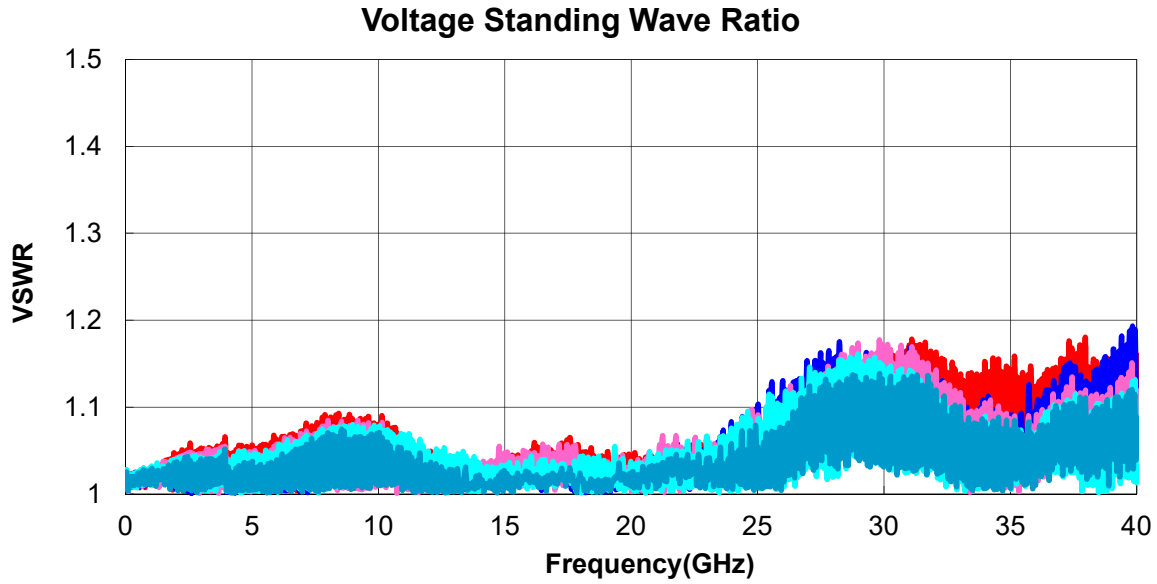
**Results: RF085-92SP-92SP-1000**

Sample	SWR (max)	IL (max)
1	1.18 @ 37.96 GHz	4.93 dB @ 40.00 GHz
2	1.19 @ 39.83 GHz	4.98 dB @ 39.82 GHz
3	1.18 @ 29.82 GHz	4.94 dB @ 40.00 GHz
4	1.16 @ 28.98 GHz	4.94 dB @ 39.92 GHz
5	1.14 @ 29.82 GHz	4.89 dB @ 39.92 GHz

Series: RF085

Description: High Performance Microwave Cable Assembly, 2.92 mm Connector End

### VSWR



### Insertion Loss

