



RF Characterization Report

PRFIA-SMPM-J-J-S-4

Test Date: 07 Jul 2020



Description
50 Ohm SMPM Jack, Bullet Adaptor, 4.22mm Overall Length

Series: PRFIA**Description:** 50 Ohm SMPM Jack, Bullet Adaptor, 4.22mm Overall Length

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Test Setup Information

Scope:

Provide standing wave ratio and insertion loss performance parameters for 4.22 mm SMPM BULLET connector.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	65 GHz
Points	6500
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight electrical calibration is performed using the Keysight ECAL 1.85 mm N4694A Calibration kit.

Calibration Kit	Keysight ECAL 1.85mm N4694A Calibration kit
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Adapter Use:

1.85 mm Female to SMPM Male adapters were used for the measurements of PRFIA-SMPM-J-J-S-4. The adapters effects were removed from the measurement using the Fixture Removal method.

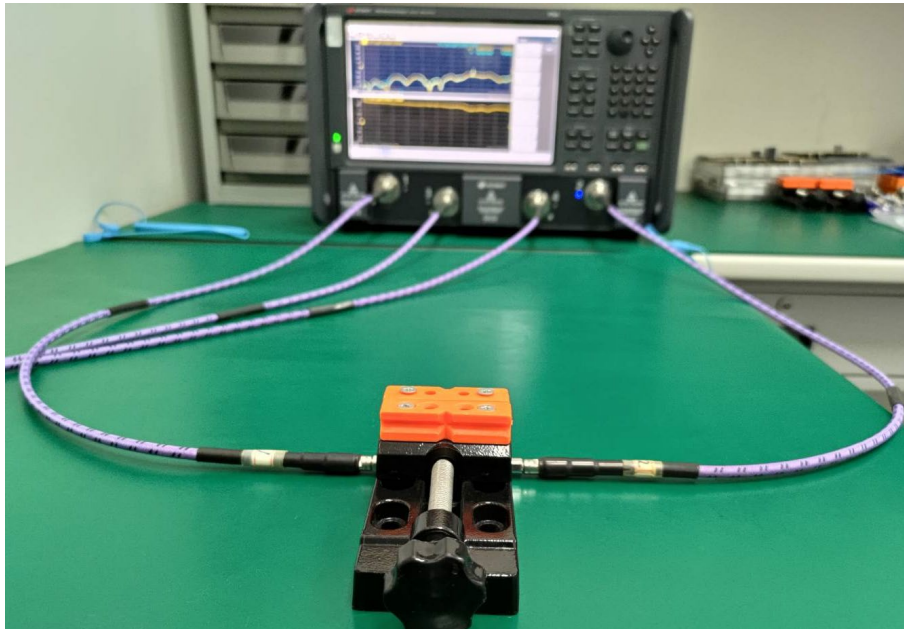
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PRFIA-SMPM-J-J-S-4 Test Definition

Part Number	End 1	End 2
PRFIA-SMPM-J-J-S-4	SMPM	SMPM

Connector Under Test:



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Conclusion:

The maximum VSWR is specified as datasheet below.

Frequency	VSWR Max Spec
DC to 26.5 GHz	1.15
26.5 GHz to 40 GHz	1.35
40 GHz to 65 GHz	1.50

Results: PRFIA-SMPM-J-J-S-4

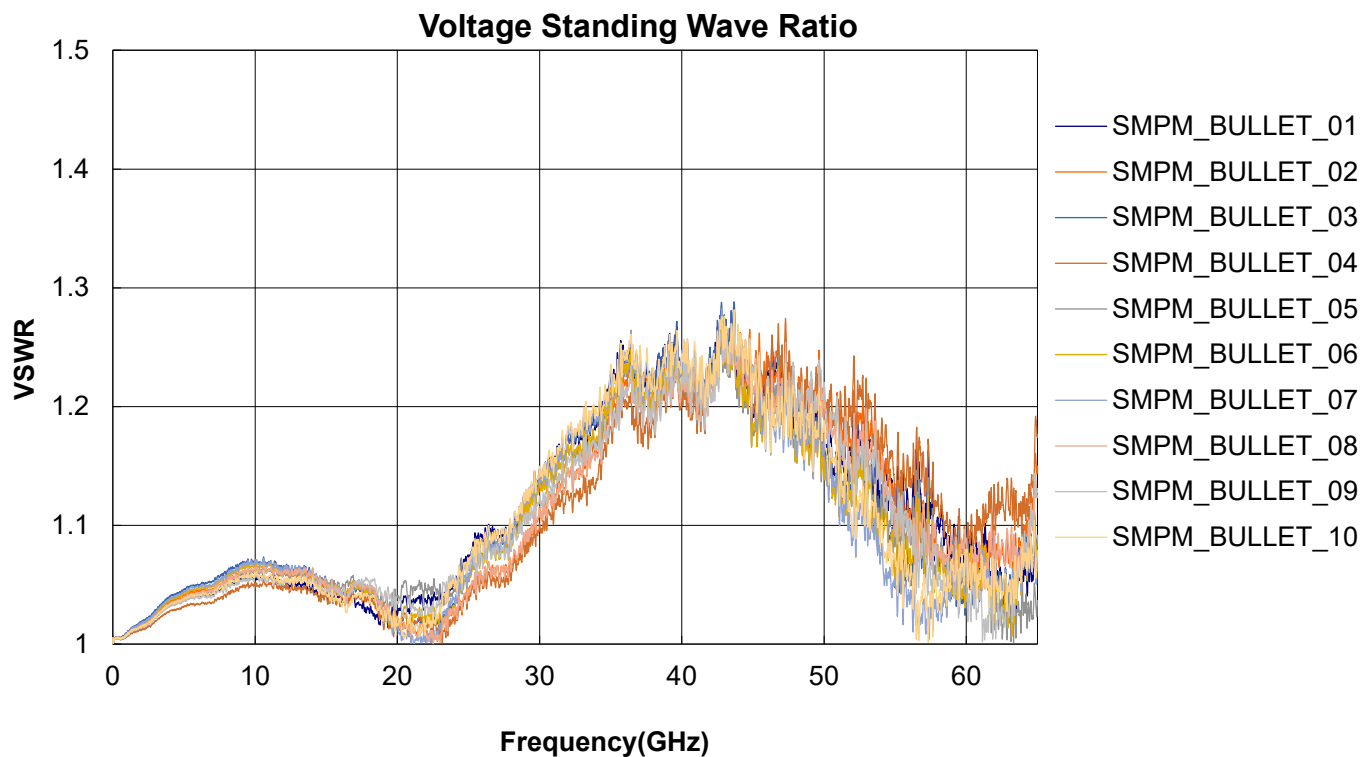
The results just include PRFIA-SMPM-J-J-S-4 connector, fixture removal method remove all adapters effects.

Sample	SWR (Max) DC-26.5 (GHz)	SWR (Max) 26.5- 40(GHz)	SWR (Max) 40-65 (GHz)	IL (Min) DC-26.5 (GHz)	IL (Min) 26.5-40 (GHz)	IL (Min) 40-65 (GHz)
SMPM_BULLET_01	1.10	1.27	1.28	-0.06 dB	-0.14 dB	-0.17 dB
SMPM_BULLET_02	1.07	1.24	1.28	-0.06 dB	-0.13 dB	-0.17 dB
SMPM_BULLET_03	1.09	1.27	1.29	-0.06 dB	-0.14 dB	-0.16 dB
SMPM_BULLET_04	1.06	1.24	1.27	-0.05 dB	-0.13 dB	-0.16 dB
SMPM_BULLET_05	1.10	1.25	1.27	-0.06 dB	-0.13 dB	-0.16 dB
SMPM_BULLET_06	1.08	1.25	1.27	-0.06 dB	-0.13 dB	-0.16 dB
SMPM_BULLET_07	1.09	1.26	1.28	-0.06 dB	-0.14 dB	-0.16 dB
SMPM_BULLET_08	1.07	1.24	1.27	-0.06 dB	-0.13 dB	-0.17 dB
SMPM_BULLET_09	1.09	1.24	1.28	-0.06 dB	-0.13 dB	-0.16 dB
SMPM_BULLET_10	1.10	1.26	1.28	-0.06 dB	-0.15 dB	-0.17 dB

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VSWR



Insertion Loss

