



RF Characterization Report

PRFIA-SMPM-J-J-S-3

Test Date: 06 May 2020



Description

50 Ohm 12.7 mm SMPM BULLET

Series: SMPM

Description: 50 Ohm 12.7 mm SMPM BULLET

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Series: SMPM**Description:** 50 Ohm 12.7 mm SMPM BULLET

Test Setup Information

Scope:

Provide standing wave ratio and insertion loss performance parameters for 12.7 mm SMPM BULLET connector.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	700 Hz
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.

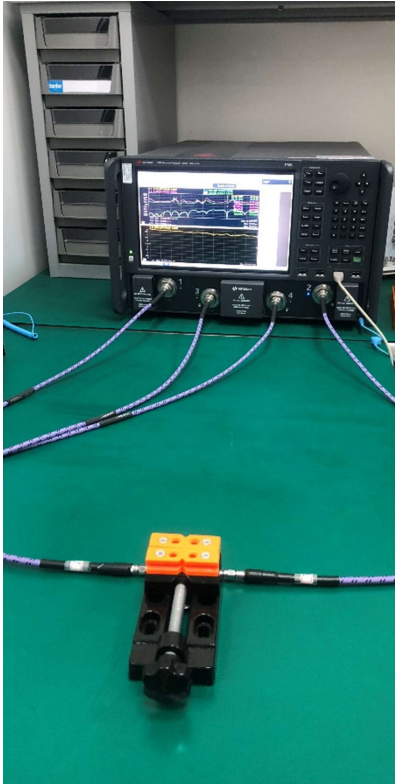
Calibration Kit	Keysight ECAL 1.85mm N4694A Calibration kit
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Adapter Use:

1.85 mm Female to SMPM Male adapters were used for the measurements of PRFIA-SMPM-J-J-S-3. The adapters effects were removed from the measurement using the Fixture Removal method.

Series: SMPM**Description: 50 Ohm 12.7 mm SMPM BULLET****PRFIA-SMPM-J-J-S-3 Test Definition**

Part Number	End 1	End 2
PRFIA-SMPM-J-J-S-3	SMPM	SMPM

Connector Under Test:

Series: SMPM
Description: 50 Ohm 12.7 mm SMPM BULLET

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-3

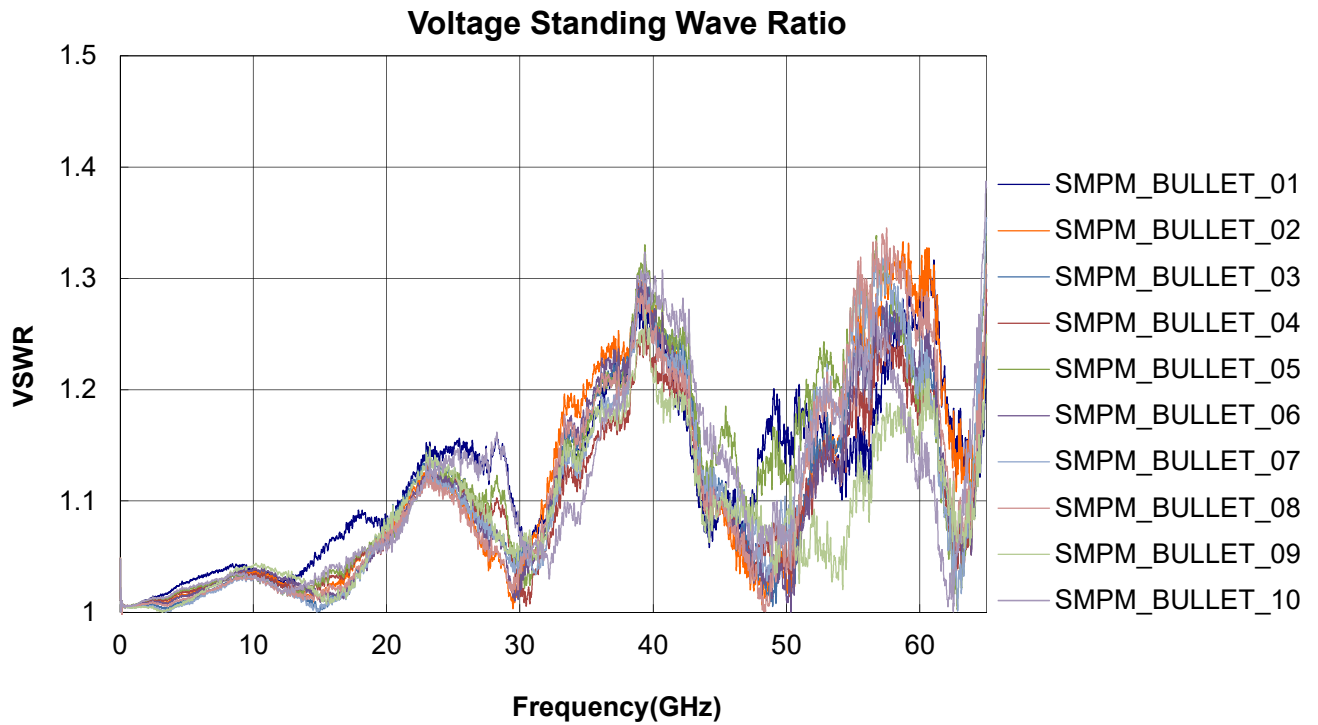
The results just include PRFIA-SMPM-J-J-S-3 connector, fixture removal method remove all adapters effects.

Sample	VSWR (Max) DC-26.5 (GHz)	VSWR (Max) 26.5-40(GHz)	VSWR (Max) 40-65 (GHz)	IL (Min) DC-26.5 (GHz)	IL (Min) 26.5-40 (GHz)	IL (Min) 40-65 (GHz)
SMPM_BULLET_01	1.16	1.29	1.32	-0.16 dB	-0.21 dB	-0.31 dB
SMPM_BULLET_02	1.14	1.30	1.33	-0.15 dB	-0.23 dB	-0.32 dB
SMPM_BULLET_03	1.15	1.30	1.30	-0.16 dB	-0.23 dB	-0.28 dB
SMPM_BULLET_04	1.13	1.26	1.29	-0.16 dB	-0.22 dB	-0.29 dB
SMPM_BULLET_05	1.13	1.33	1.34	-0.18 dB	-0.27 dB	-0.33 dB
SMPM_BULLET_06	1.14	1.30	1.28	-0.16 dB	-0.24 dB	-0.30 dB
SMPM_BULLET_07	1.13	1.30	1.35	-0.17 dB	-0.25 dB	-0.31 dB
SMPM_BULLET_08	1.13	1.30	1.35	-0.17 dB	-0.24 dB	-0.33 dB
SMPM_BULLET_09	1.15	1.27	1.25	-0.17 dB	-0.23 dB	-0.30 dB
SMPM_BULLET_10	1.15	1.32	1.39	-0.22 dB	-0.30 dB	-0.40 dB

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VSWR



Insertion Loss

