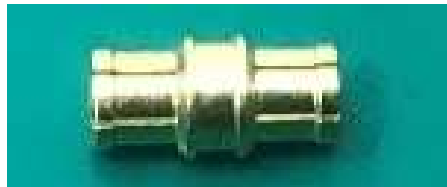




RF Characterization Report

PRFIA-SMPM-J-J-S-1

Test Date: 23 Oct 2020



Description **50 Ohm 5.33 mm SMPM BULLET**

Series: SMPM

Description: 50 Ohm 5.33 mm SMPM BULLET

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:	1
Calibration Type:.....	1
Adapter Use:.....	1
PRFIA-SMPM-J-J-S-1 Test Definition	2
Connector Under Test:	2
Results: PRFIA-SMPM-J-J-S-1	3
VSWR	4
Insertion Loss.....	4

Series: SMPM**Description:** 50 Ohm 5.33 mm SMPM BULLET

Test Setup Information

Scope:

Provide standing wave ratio and insertion loss performance parameters for 5.33 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.

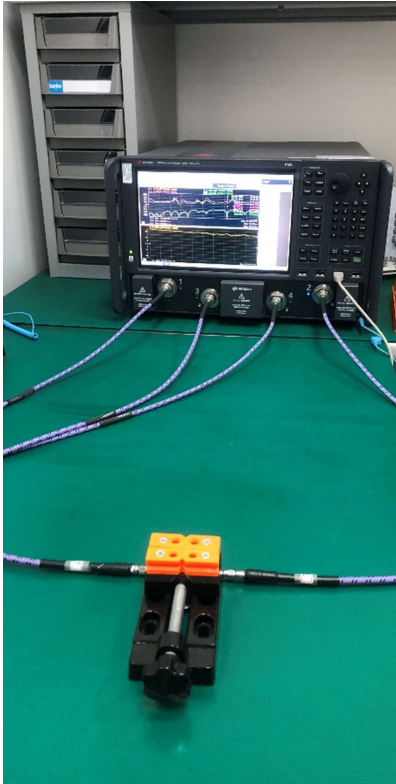
Calibration Kit	Keysight ECAL 1.85mm N4694A Calibration kit
-----------------	---

Adapter Use:

1.85 mm Female to SMPM Male adapters were used for the measurements of PRFIA-SMPM-J-J-S-1. The adapters effects were removed from the measurement using the Fixture Removal method.

Series: SMPM**Description: 50 Ohm 5.33 mm SMPM BULLET****PRFIA-SMPM-J-J-S-1 Test Definition**

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

Connector Under Test:

Series: SMPM
Description: 50 Ohm 5.33 mm SMPM BULLET
Conclusion:

The maximum VSWR is specified as 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-1

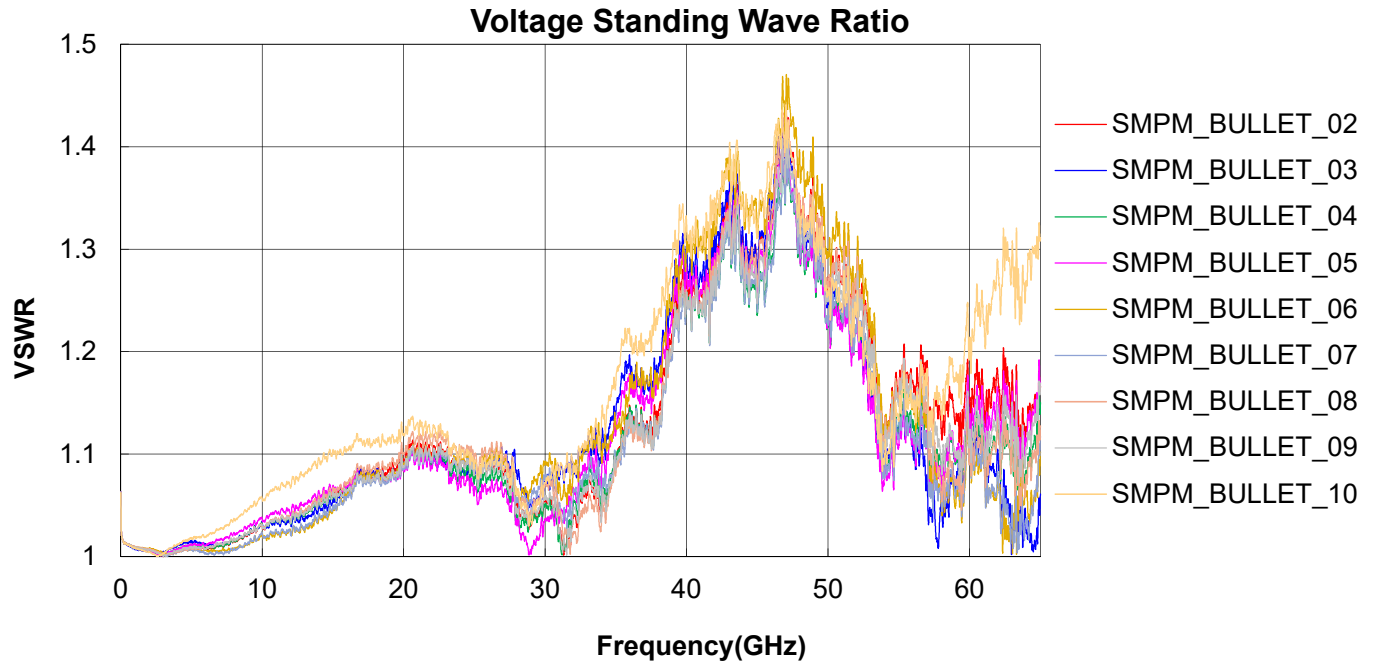
The results include the PRFIA-SMPM-J-J-S-1 connector only. Fixture removal was used to remove adapters effects.

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_02	1.11	1.28	1.44	-0.07 dB	-0.10 dB	-0.49 dB
SMPM_BULLET_03	1.11	1.32	1.43	-0.08 dB	-0.10 dB	-0.46 dB
SMPM_BULLET_04	1.11	1.27	1.40	-0.08 dB	-0.09 dB	-0.50 dB
SMPM_BULLET_05	1.10	1.30	1.41	-0.08 dB	-0.10 dB	-0.48 dB
SMPM_BULLET_06	1.11	1.31	1.47	-0.07 dB	-0.11 dB	-0.40 dB
SMPM_BULLET_07	1.11	1.25	1.39	-0.08 dB	-0.10 dB	-0.40 dB
SMPM_BULLET_08	1.12	1.27	1.44	-0.08 dB	-0.10 dB	-0.43 dB
SMPM_BULLET_09	1.11	1.26	1.41	-0.08 dB	-0.09 dB	-0.47 dB
SMPM_BULLET_10	1.14	1.34	1.44	-0.07 dB	-0.12 dB	-0.53 dB

Series: SMPM

Description: 50 Ohm 5.33 mm SMPM BULLET

VSWR



Insertion Loss

