



RF Characterization Report

PRFIA-SMPM-J-J-S-2

Test Date: 19 Aug 2020



Description
50 Ohm 8.31 mm SMPM BULLET

Series: SMPM

Description: 50 Ohm 8.31 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-2 Test Definition 2
 Connector Under Test: 2
 Results: PRFIA-SMPM-J-J-S-2 3
 VSWR 4
 Insertion Loss..... 4

Series: SMPM**Description:** 50 Ohm 8.31 mm SMPM BULLET

Test Setup Information

Scope:

Provide standing wave ratio and insertion loss performance parameters for 8.31 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.

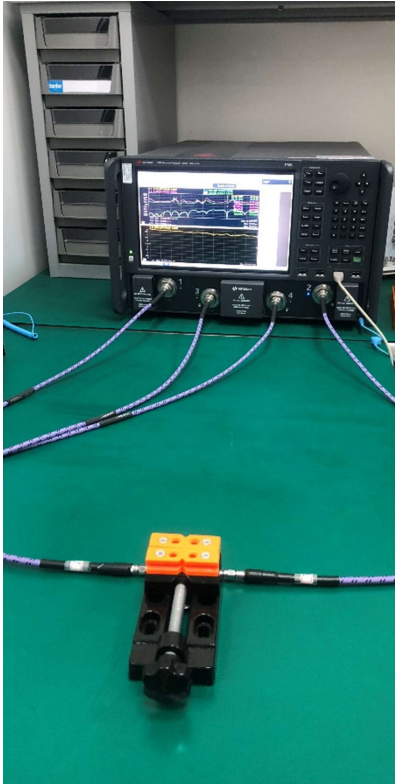
Calibration Kit	Keysight ECAL 1.85mm N4694A Calibration kit
-----------------	---

Adapter Use:

1.85 mm Female to SMPM Male adapters were used for the measurements of PRFIA-SMPM-J-J-S-2. The adapters effects were removed from the measurement using the Fixture Removal method.

Series: SMPM**Description: 50 Ohm 8.31 mm SMPM BULLET****PRFIA-SMPM-J-J-S-2 Test Definition**

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

Connector Under Test:

Series: SMPM

Description: 50 Ohm 8.31 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-2

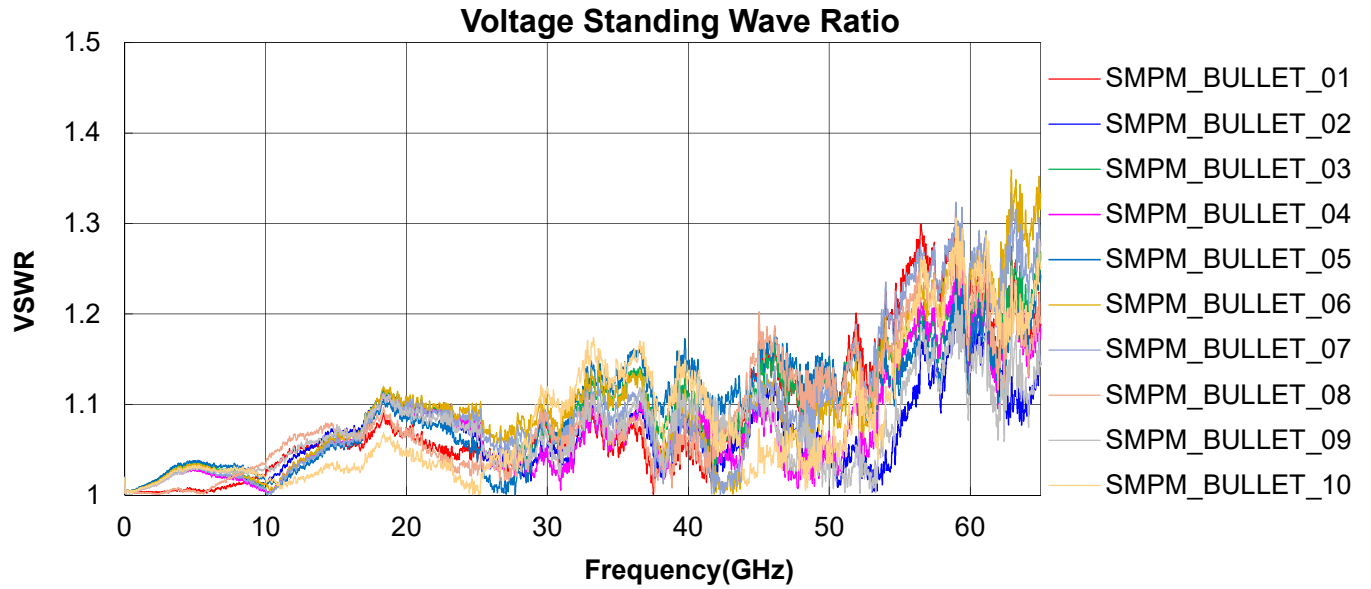
The results include the PRFIA-SMPM-J-J-S-1 connector only. Fixture removal was used to remove adapters effects

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_01	1.09	1.10	1.32	-0.08 dB	-0.11 dB	-0.24 dB
SMPM_BULLET_02	1.12	1.11	1.22	-0.08 dB	-0.10 dB	-0.18 dB
SMPM_BULLET_03	1.12	1.14	1.28	-0.08 dB	-0.10 dB	-0.19 dB
SMPM_BULLET_04	1.11	1.11	1.26	-0.08 dB	-0.10 dB	-0.20 dB
SMPM_BULLET_05	1.11	1.17	1.27	-0.08 dB	-0.11 dB	-0.19 dB
SMPM_BULLET_06	1.12	1.15	1.36	-0.08 dB	-0.11 dB	-0.22 dB
SMPM_BULLET_07	1.11	1.12	1.33	-0.09 dB	-0.11 dB	-0.24 dB
SMPM_BULLET_08	1.10	1.11	1.30	-0.08 dB	-0.11 dB	-0.23 dB
SMPM_BULLET_09	1.11	1.13	1.22	-0.08 dB	-0.11 dB	-0.21 dB
SMPM_BULLET_10	1.07	1.17	1.31	-0.08 dB	-0.13 dB	-0.23 dB

Series: SMPM

Description: 50 Ohm 8.31 mm SMPM BULLET

VSWR



Insertion Loss

