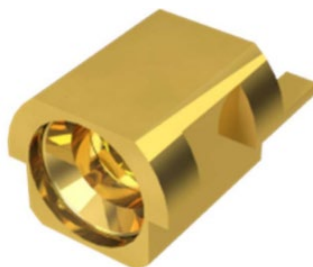




RF Characterization Report

SMPM-PX-P-HG-ST-EM-1

Test Date: Aug 2022



Description **50 Ohm SMPM Plug, Edge Mount**

Series: SMPM-EM

Description: 50 Ohm SMPM Plug, Edge Mount

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Series: SMPM-EM

Description: 50 Ohm SMPM Plug, Edge Mount

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for SMPM Plug, Straight, Edge Mount 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	67 GHz
Points	6700
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed using the Keysight 1.85 mm Mechanical Calibration kit.

Calibration Kit	Keysight 85058E 1.85mm Mechanical Calibration kit
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Adapter Use:

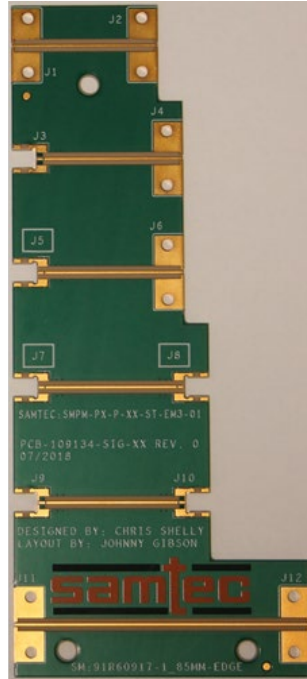
1.85 mm Female to SMPM Female adapter was used for the measurements of SMPM-PX-P-HG-ST-EM-1. The adapter effects were removed from the measurement using Automatic Fixture Removal (AFR).

Series: SMPM-EM

Description: 50 Ohm SMPM Plug, Edge Mount

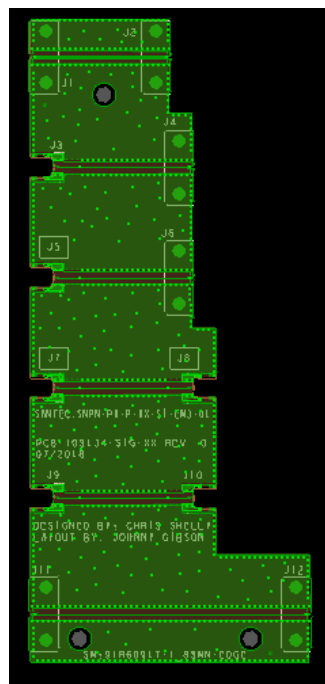
PCB-109134-SIG-XX REV.0 Test Fixtures

Shown below is a photograph of the test board.



PCB-109134-SIG-XX REV.0 Layout

Artwork of the PCB design is shown below.



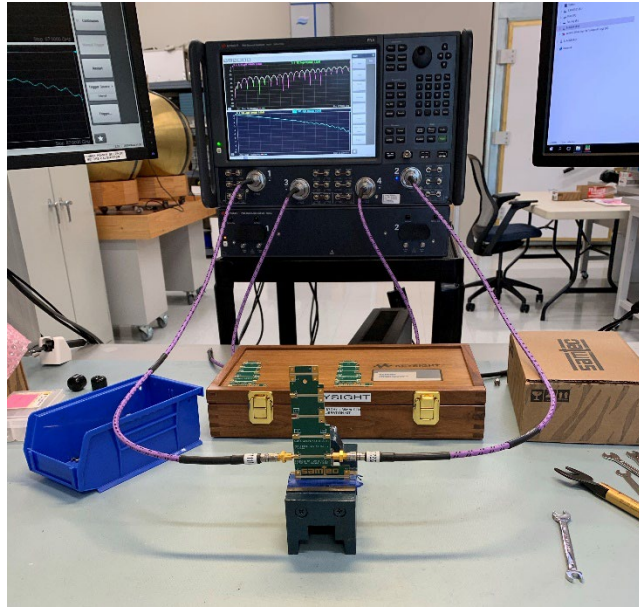
Series: SMPM-EM

Description: 50 Ohm SMPM Plug, Edge Mount

SMPM-PX-P-XX-EM-1 Test Definition

Part Number	End 1
SMPM-PX-P-HG-ST-EM-1	SMPM Plug

Connector Under Test:



Series: SMPM-EM

Description: 50 Ohm SMPM Plug, Edge Mount

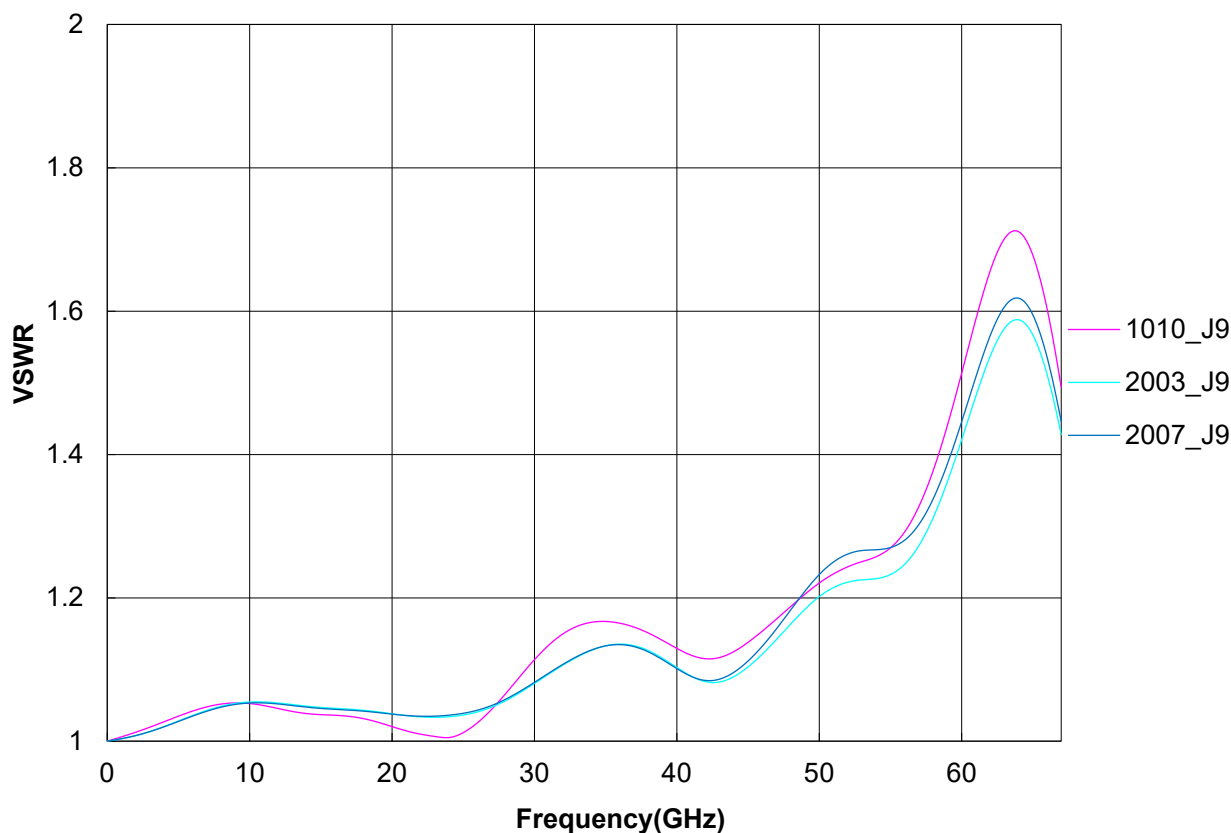
Results: SMPM-PX-P-HG-ST-EM-1

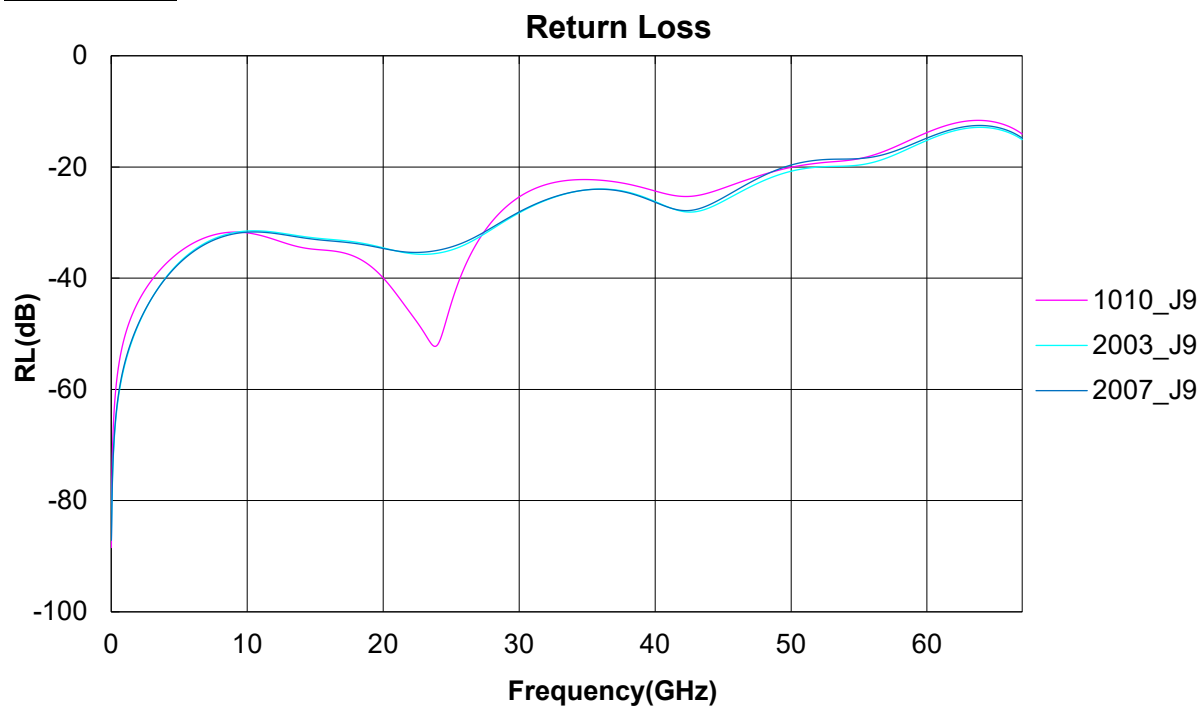
The results just include SMPM-PX-P-HG-ST-EM-1 connector, fixture removal method removed all adapter effects.

Description: 50 Ohm SMPM Plug, Edge Mount			
Sample	SWR(max)	RL(dB, max)	IL(dB, min)
1010_J9	1.71@63.57GHz	-11.62@63.57GHz	-2.01@66.66GHz
2003_J9	1.59@63.91GHz	-12.87@63.91GHz	-2.10@66.68GHz
2007_J9	1.62@63.86GHz	-12.54@63.86GHz	-2.07@66.69GHz

VSWR

Voltage Standing Wave Ratio



Series: SMPM-EM**Description:** 50 Ohm SMPM Plug, Edge MountReturn LossInsertion Loss