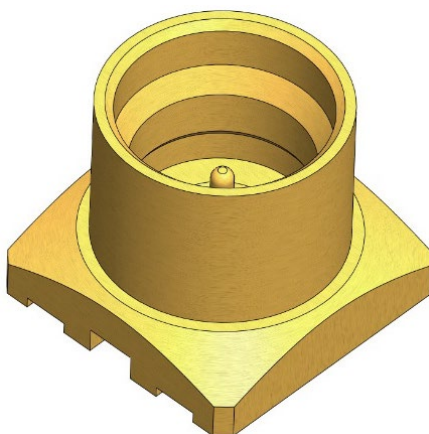




RF Characterization Report

SMP-PX-P-XX-ST-SM



Test Date: Mar 2023

Description:

50 Ohm SMP Plug, Surface Mount

Series: SMP-SM**Description:** 50 Ohm SMP Plug, Surface Mount

Table of Contents

Test Setup Information	1
Scope:	1
Instrument Setup & Test Accessories:.....	1
Calibration Type:.....	1
Adapter Use:.....	1
PCB-SMPSM-112547-SIG-0 Test Fixtures for SMP-PX-P-XX-ST-SM	2
PCB-SMPSM-112547-SIG-0 PCB Layout	2
SMP-PX-P-XX-ST-XX Test Definition	3
Connector Under Test:	3
Results: SMP-PX-P-XX-ST-SM	4
VSWR	4
Return Loss.....	5
Insertion Loss.....	5

Series: SMP-SM

Description: 50 Ohm SMP Plug, Surface Mount

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for SMP Plug, Straight, Surface Mount 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	40 GHz
Points	4000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed using the Keysight 2.4 mm Mechanical Calibration kit.

Calibration Kit	Keysight 85056D 2.4 mm Mechanical Calibration kit
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Adapter Use:

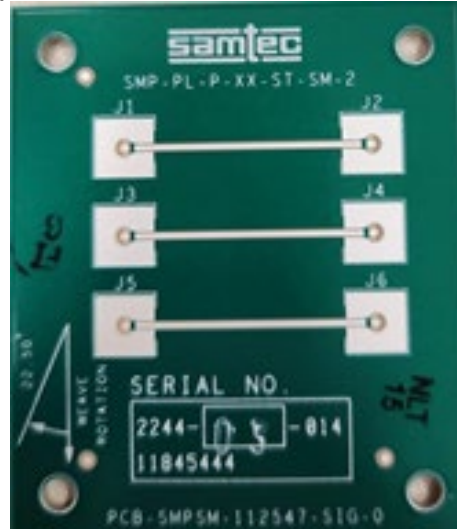
Fairview Microwave SM8861 2.4 mm Female to SMP Female adapter was used for the measurements of SMP-PX-P-XX-ST-SM. The adapter effects were removed from the measurement using the Fixture Removal method.

Series: SMP-SM

Description: 50 Ohm SMP Plug, Surface Mount

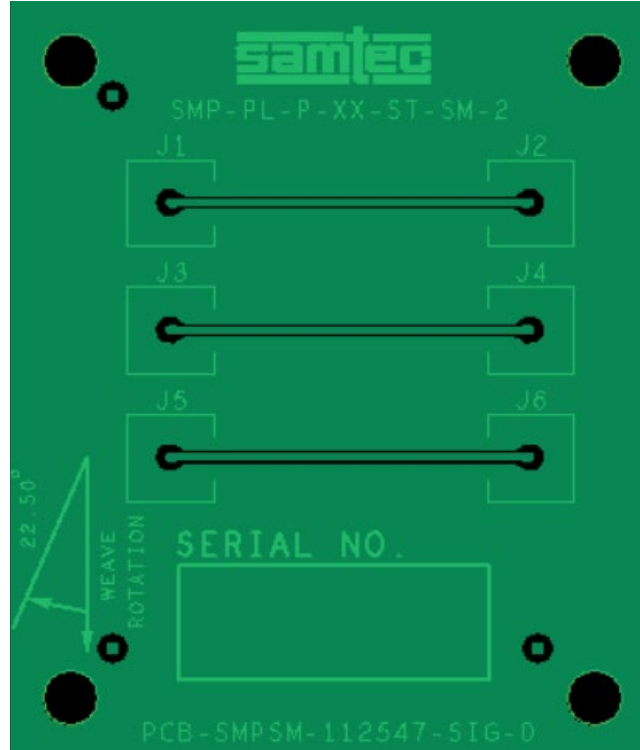
PCB-SMPSM-112547-SIG-0 Test Fixtures for SMP-PX-P-XX-ST-SM

Shown below is a photograph of the test board.



PCB-SMPSM-112547-SIG-0 PCB Layout

Artwork of the PCB design is shown below.



Series: SMP-SM

Description: 50 Ohm SMP Plug, Surface Mount

SMP-PX-P-XX-ST-XX Test Definition

Part Number	End 1
SMP-PX-P-XX-ST-SM	SMP Plug

Connector Under Test:



SMP-PX-P-XX-ST-SM

Series: SMP-SM

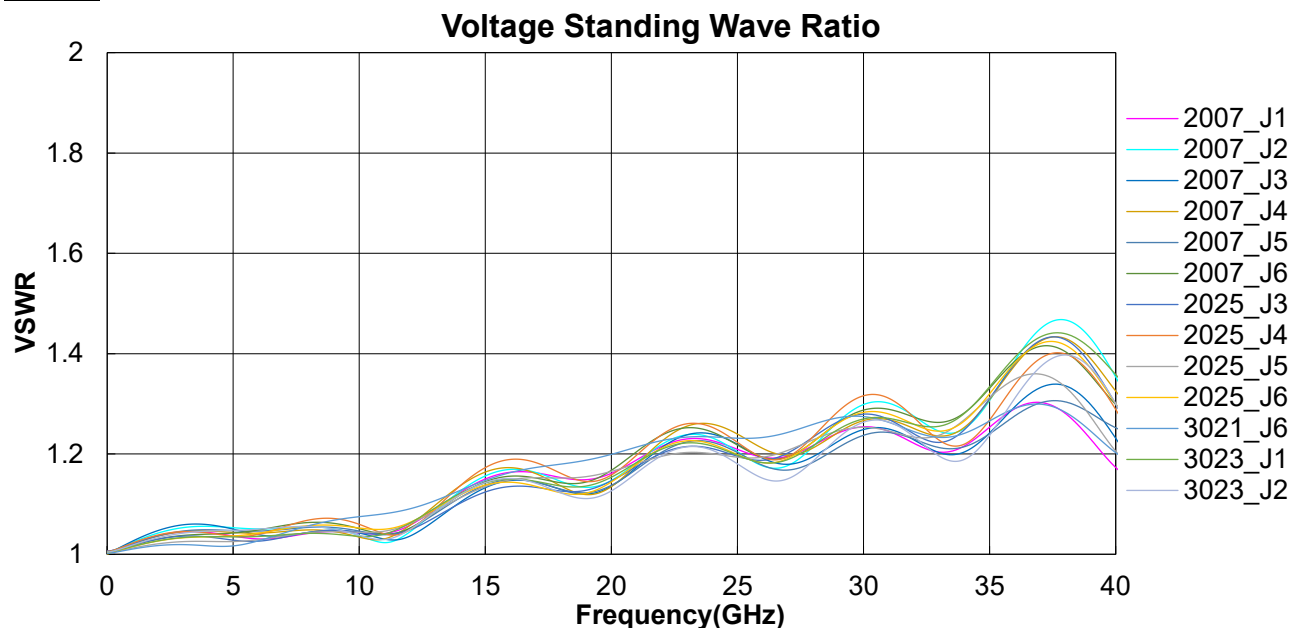
Description: 50 Ohm SMP Plug, Surface Mount

Results: SMP-PX-P-XX-ST-SM

The post processed results include one SMP-PX-P-XX-ST-SM connector, launch, and 0.5" of PCB trace to minimize the effects of the test setup.

Description: 50 Ohm SMP Plug, Surface Mount			
Sample	SWR(max)	RL(dB, max)	IL(dB, min)
2007_J1	1.30@36.86GHz	-17.62@36.86GHz	-1.01@40.00GHz
2007_J2	1.47@37.82GHz	-14.44@37.82GHz	-0.99@39.99GHz
2007_J3	1.34@37.61GHz	-16.77@37.61GHz	-1.09@40.00GHz
2007_J4	1.43@37.61GHz	-14.98@37.61GHz	-1.07@40.00GHz
2007_J5	1.31@37.54GHz	-17.54@37.54GHz	-1.15@40.00GHz
2007_J6	1.42@37.24GHz	-15.28@37.24GHz	-1.13@40.00GHz
2025_J3	1.43@37.53GHz	-14.98@37.53GHz	-0.95@40.00GHz
2025_J4	1.40@37.68GHz	-15.53@37.68GHz	-0.94@39.99GHz
2025_J5	1.36@36.84GHz	-16.34@36.84GHz	-0.92@40.00GHz
2025_J6	1.42@37.45GHz	-15.14@37.45GHz	-0.90@40.00GHz
3021_J6	1.30@36.87GHz	-17.70@36.87GHz	-1.18@40.00GHz
3023_J1	1.44@37.70GHz	-14.85@37.70GHz	-0.89@39.99GHz
3023_J2	1.40@37.99GHz	-15.61@37.99GHz	-0.88@39.99GHz

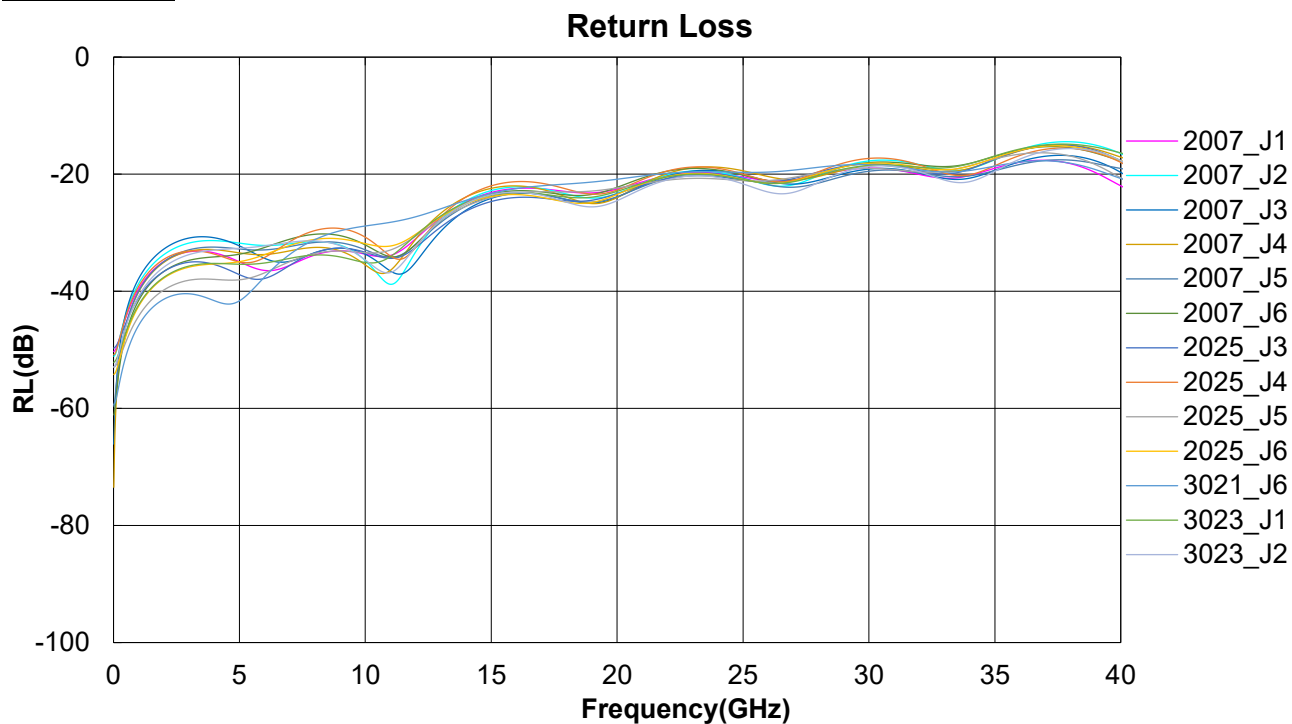
VSWR



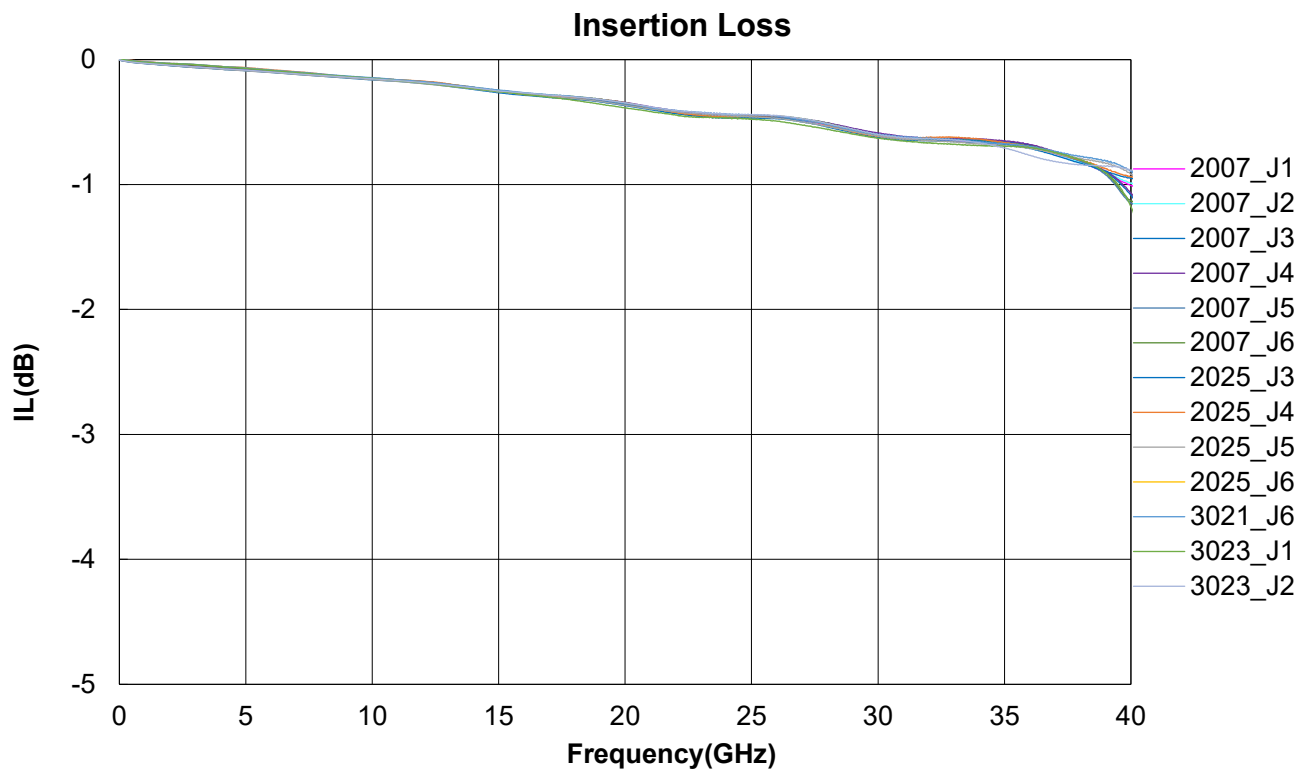
Series: SMP-SM

Description: 50 Ohm SMP Plug, Surface Mount

Return Loss



Insertion Loss





Series: SMP-SM

Description: 50 Ohm SMP Plug, Surface Mount