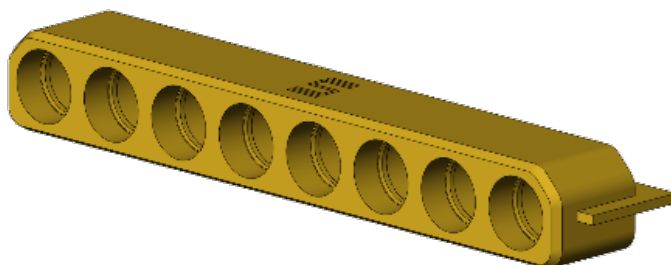




RF Characterization Report

GPPC-PX-1-08-EG-ST-EM-1N



Test Date: Aug 2022

Description
Magnum RF™ Ganged, Multi-Position SMPM Block,
Edge Mount, 0.140" Pitch

Series: GPPC**Description:** Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch

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Series: GPPC

Description: Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch

Test Setup Information

Scope:

Provide standing wave ratio, return loss, insertion loss and Isolation performance parameters for SMPM Plug, Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount.

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:

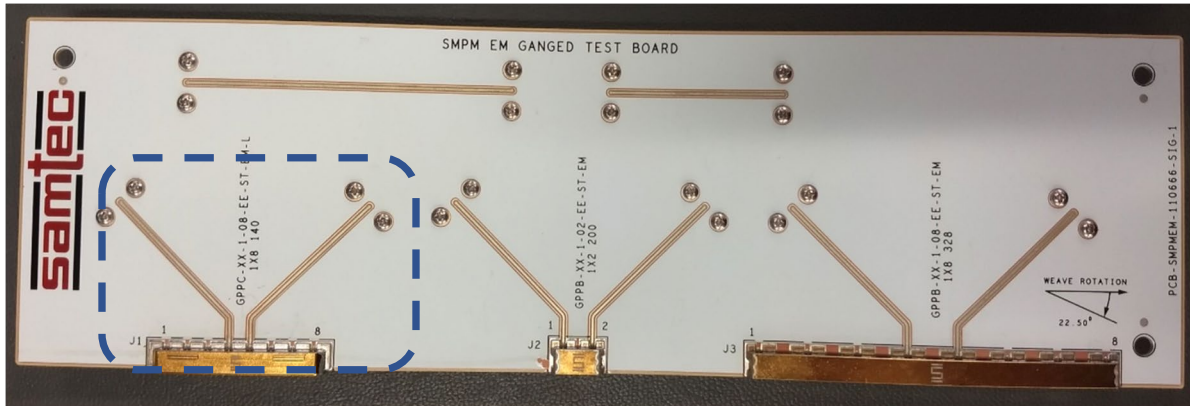
API 5299 1.85 mm Female to SMPM Female adapter was used for the measurements of GPPC-PX-1-08-EG-ST-EM-1N. The adapter effects were removed from the measurement using the Automatic Fixture Removal.

Series: GPPC

Description: Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch

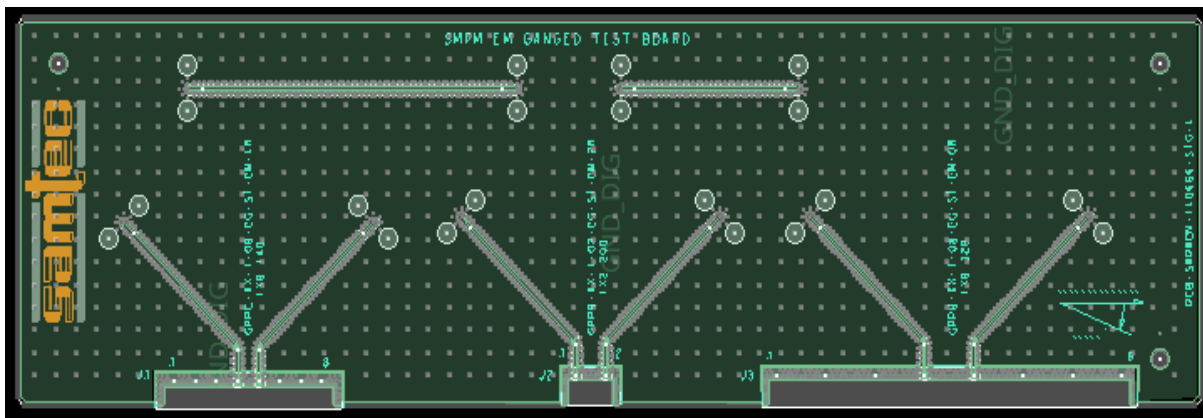
PCB-SMPMEM-110666-SIG-1 Test Fixtures

Shown below is a photograph of the test board.



PCB-SMPMEM-110666-SIG-1 PCB Layout

Artwork of the PCB design is shown below.



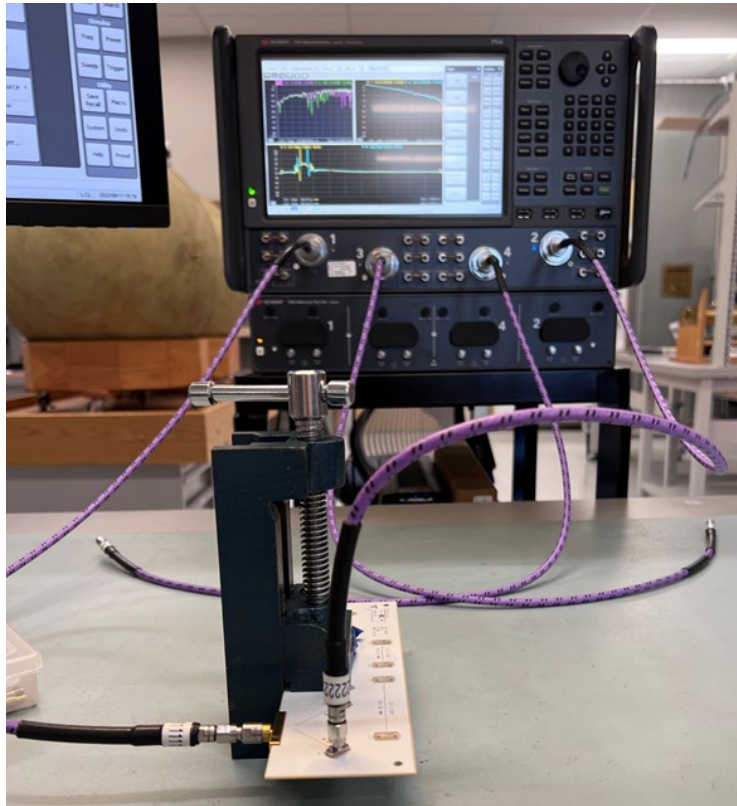
Series: GPPC

Description: Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch

GPPC-PX-1-08-EG-ST-EM-1N Test Definition

Part Number	End 1
GPPC-PX-1-08-EG-ST-EM-1N	SMPM Plug

Connector Under Test:



Series: GPPC

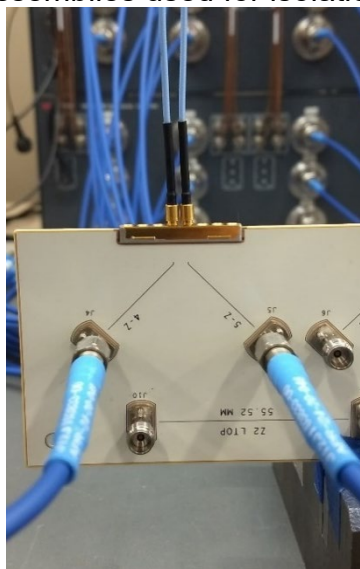
Description: Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch

Results: GPPC-PX-1-08-EG-ST-EM-1N

The results just include GPPC-PX-1-08-EG-ST-EM-1N connector, automatic fixture removal method removed all adapter effects. For the isolation measurements, adaptor cable assemblies where required due to the connectors .140" centerline spacing.



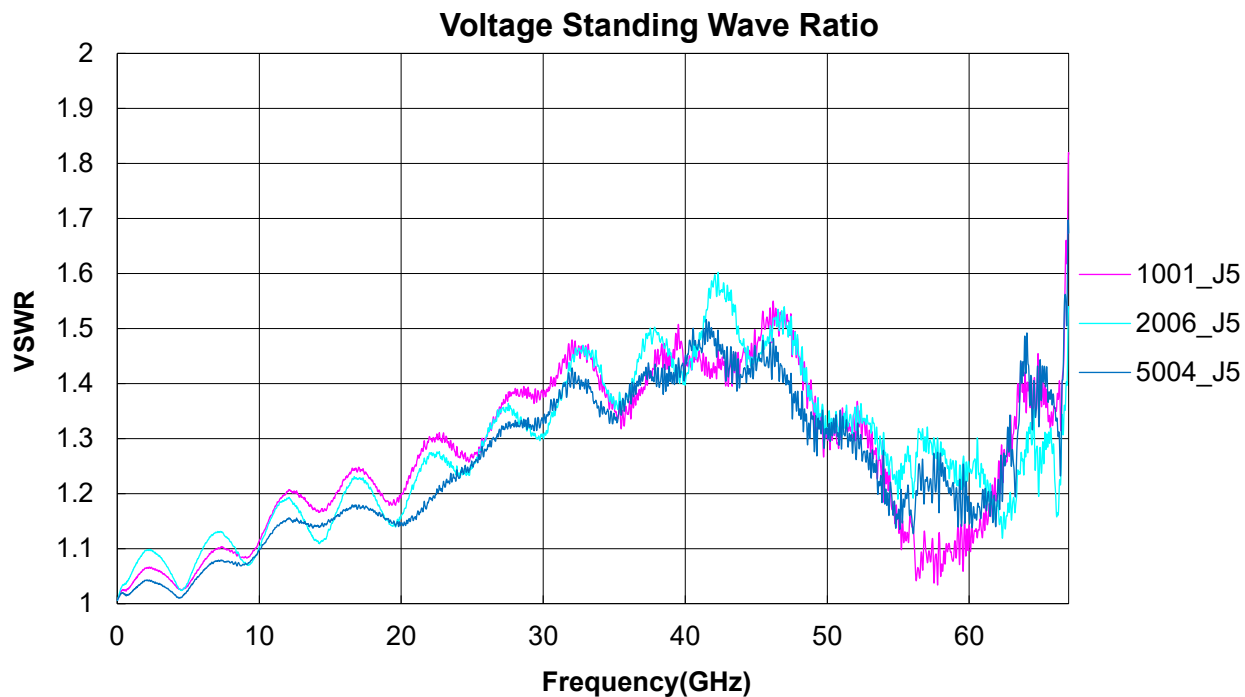
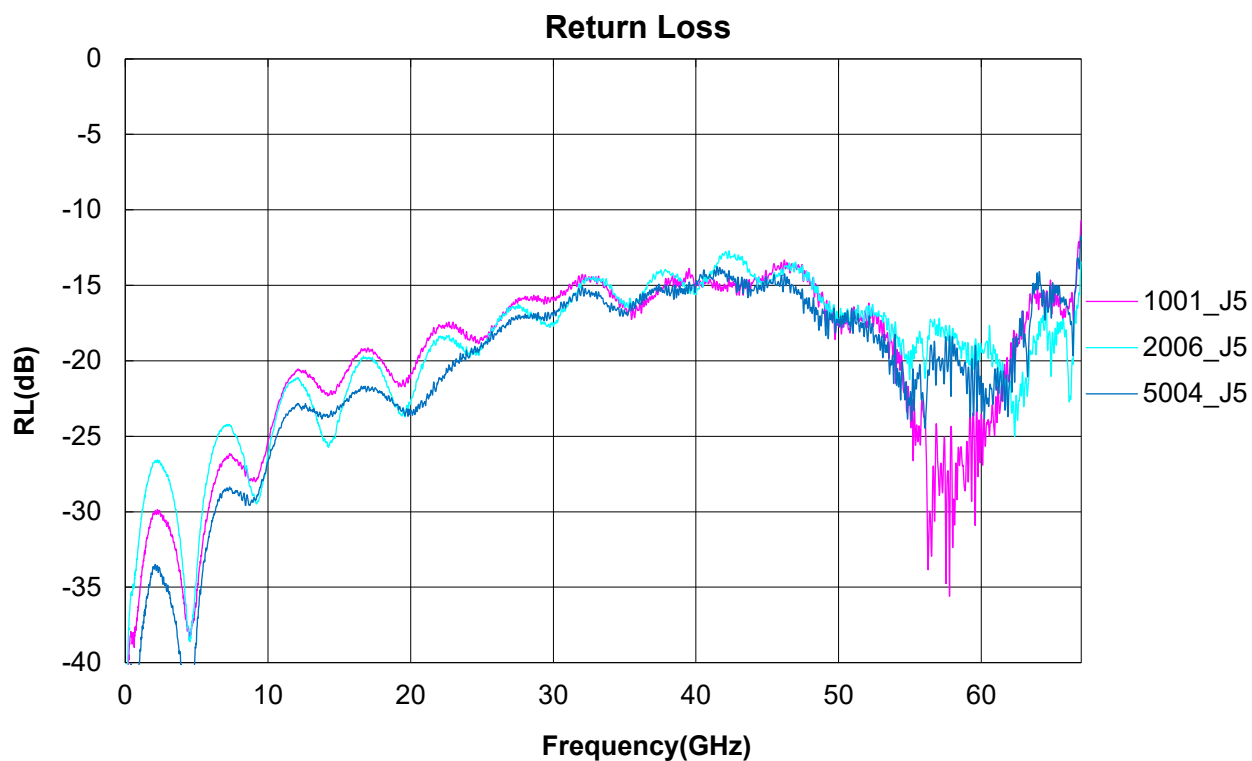
Cable assemblies used for isolation testing

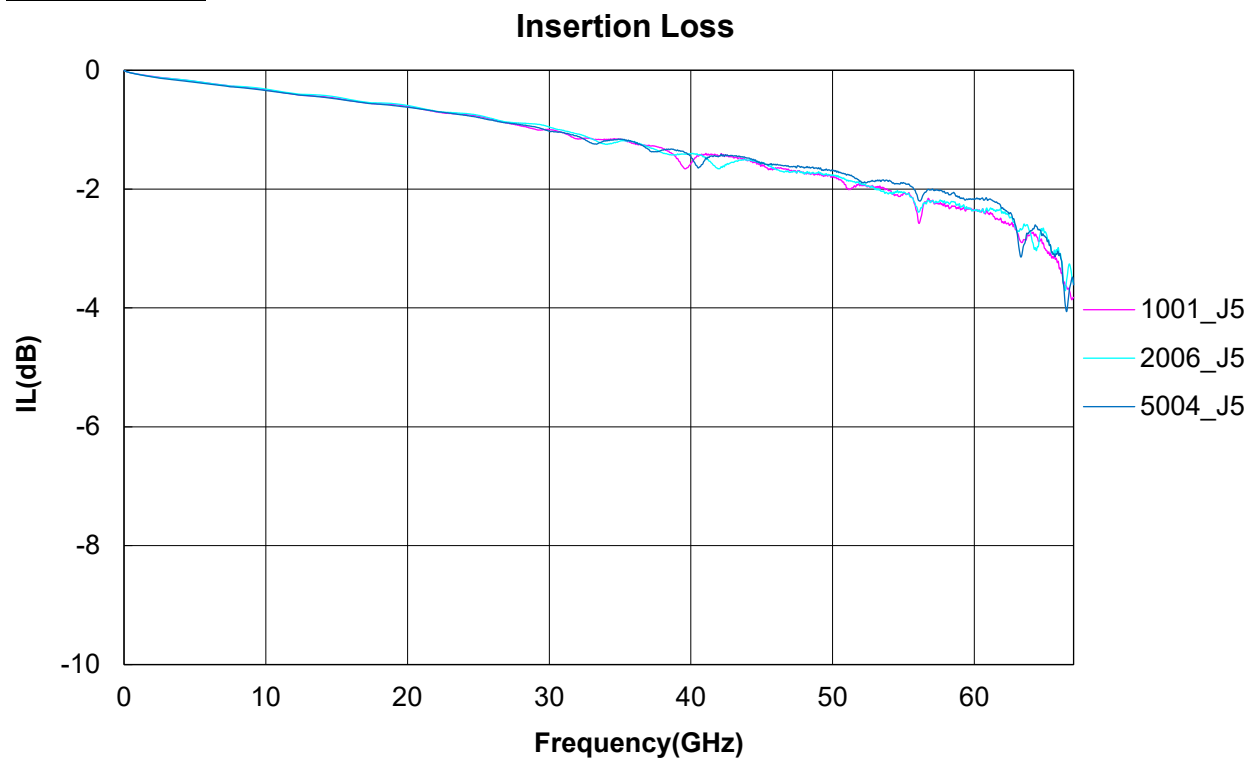


Isolation testing setup

Description: 50 Ohm SMPM Plug			
Sample	SWR(max)	RL(dB, max)	IL(dB, min)
1001_J5	1.82@66.99GHz	-10.73@66.99GHz	-3.86@66.87GHz
2006_J5	1.60@42.31GHz	-12.71@42.31GHz	-3.71@66.41GHz
5004_J5	1.70@66.97GHz	-11.75@66.97GHz	-4.06@66.51GHz

Description: 50 Ohm SMPM Plug	
Sample	Isolation (Max)
3001_J4_J5	-26.39 dB@41.62GHz
4002_J4_J5	-26.10 dB@41.91GHz
4005_J4_J5	-27.53 dB@42.36GHz

Series: GPPC**Description:** Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" Pitch**VSWR****Return Loss**

Series: GPPC**Description:** Magnum RF™ Ganged, Multi-Position SMPM Block, Edge Mount, 0.140" PitchInsertion LossIsolation