

High Performance SMA Connectors

DC to 27 GHz

withwave
Next Generation Connectivity

WithWave's High Performance SMA Connectors are specially designed for RF/microwave application. This field replaceable connectors are easy to install/replace and precision manufacturing allows superior electrical performance up to 27 GHz. These connectors are available with three mounting configurations and assembly is preciously controlled to ensure consistency of performance.



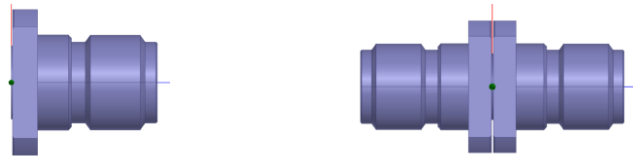
■ Specification

Scope	Items	Specification
Electrical	Freq. range	DC to 27 GHz
	Impedance	50 Ohm
	VSWR(Max)	1.10 :1 (DC to 18 GHz) 1.15 :1 (18 to 27 GHz)
	Insulation Resistance (Min)	5,000 megaohms
	RF Leakage	- 90 dB
Material	Body	Stainless Steel (Passivated)
	Center Contact	BeCu (gold plated)
	Insulator	Special Dielectric
Environmental	Temperature	-40 to +125 degree
	Thermal Shock	MIL-STD-202, Method 107, Condition A
	Corrosion	MIL-STD-202, Method 101, Condition B
	Vibration	MIL-STD-202, Method 204, Condition D
	Moisture Resistance	MIL-STD-202, Method 106

**RoHS Compliant*

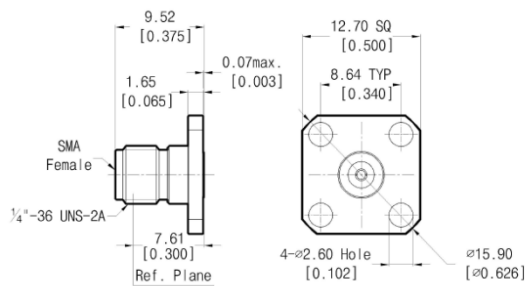
■ Design Assistance

- 3D Model for Mechanical Layout (STEP file)
- **ANSYS HFSS models** (version 17.0 or newer) for 3D EM(Electromagnetic) Simulation



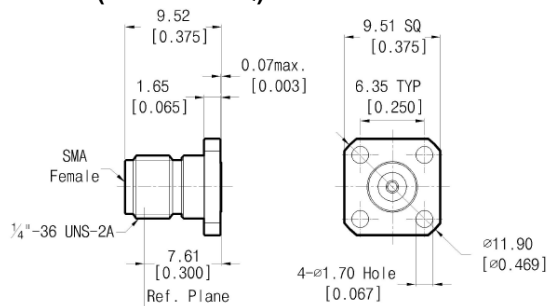
Drawing_ High Performance SMA Jack (Female)

4 Hole (12.7 mm SQ)



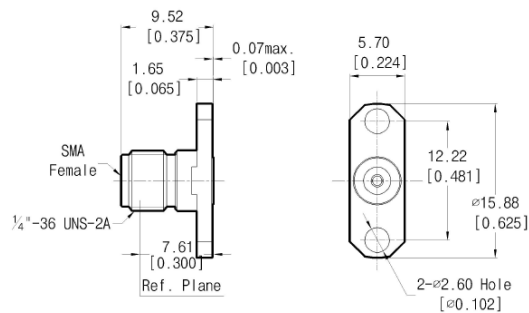
Accept Pin Dia.	Part No.
0.036"	PM06FS035

4 Hole (9.51 mm SQ)



Accept Pin Dia.	Part No.
0.036"	PM06FS040

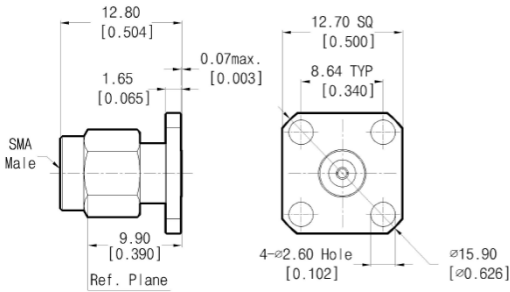
2 Hole (15.88 mm Long)



Accept Pin Dia.	Part No.
0.036"	PM06FS045

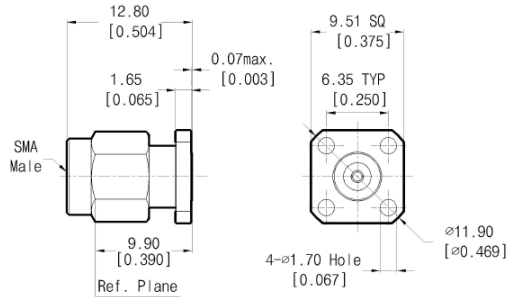
■ Drawing_ High Performance SMA Plug (Male)

4 Hole (12.7 mm SQ)



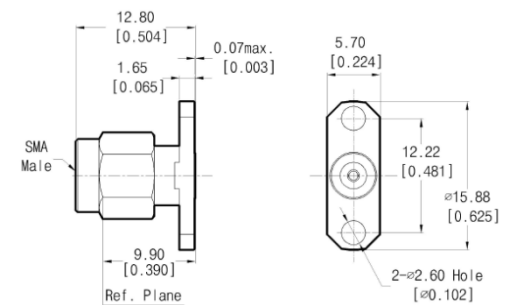
Accept Pin Dia.	Part No.
0.036"	PM06MS035

4 Hole (9.51 mm SQ)



Accept Pin Dia.	Part No.
0.036"	PM06MS040

2 Hole (15.88 mm Long)



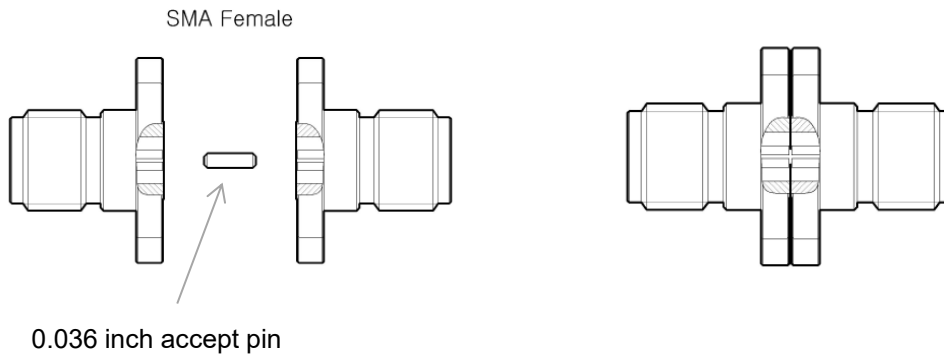
Accept Pin Dia.	Part No.
0.036"	PM06MS045

■ Test Result

Back-to-Back Test

Female Type

Part No : PM06FS035



- Freq. Range : 10 MHz ~27 GHz
- Insertion & Return Loss Measurement

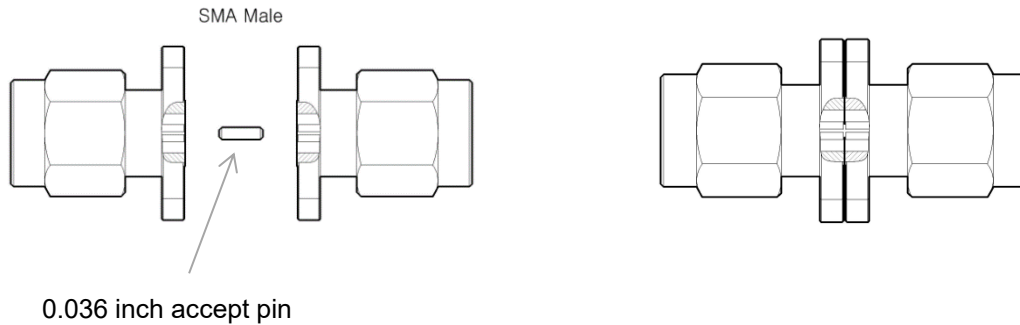


■ Test Result

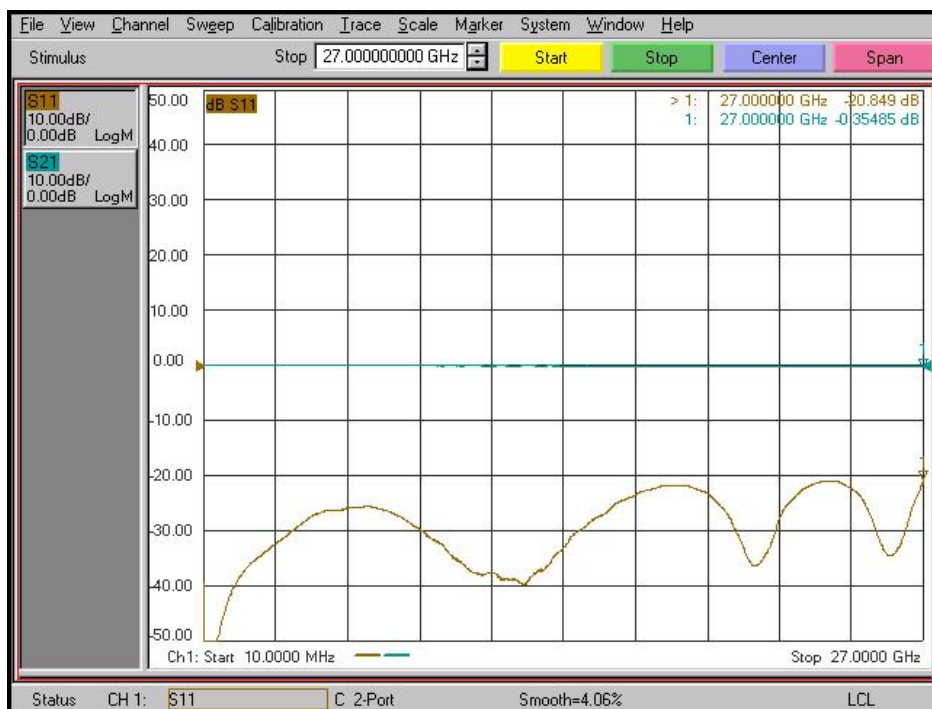
Back-to-Back Test

Male Type

Part No : PM06MS035



- Freq. Range : 10 MHz ~27 GHz
- Insertion & Return Loss Measurement



■ **Competitive cross-Reference**

Southwest P/N		Withwave P/N
212-503SF	PM06FS035
212-513SF	PM06FS040
214-503SF	PM06FS045
211-503SF	PM06MS035
211-513SF	PM06MS040
213-503SF	PM06MS045

■ *Revision History*

Revision	Date	Changes
Ver 1.0 Ver.1.1 Ver 2.0	2016-04-05 2020-01-01 2020-03-01	Released High Performance SMA Updated Drawing Add Design Assistance for ANSYS HFSS 3D simulation model