DC to 27 GHz



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

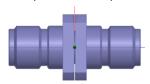
Scope	Items	Specification
Electrical	Freq. range	DC to 27 GHz
	Impedance	50 Ohm
	VSWR(Max)	1.10 :1 (DC to 18 GHz) 1.15 :1 (18 to 27 GHz)
	Insulation Resistance (Min)	5,000 megaohms
	RF Leakage	- 90 dB
Material	Body	Stainless Steel (Passivated)
	Center Contact	BeCu (gold plated)
	Insulator	Special Dielectric
Environmental	Temperature	-40 to +135 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

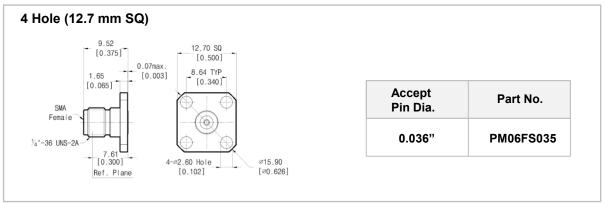


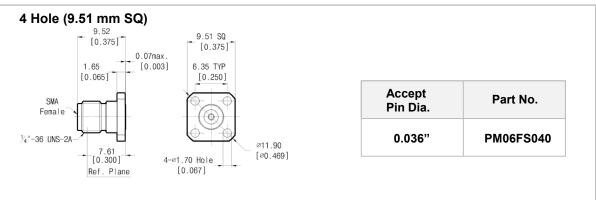


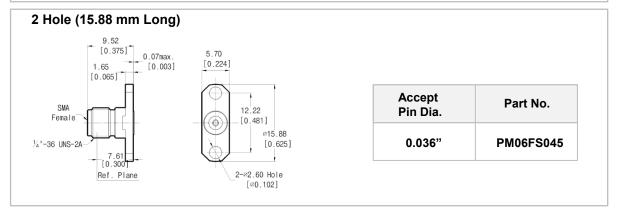
DC to 27 GHz



■ Drawing_ High Performance SMA Jack (Female)



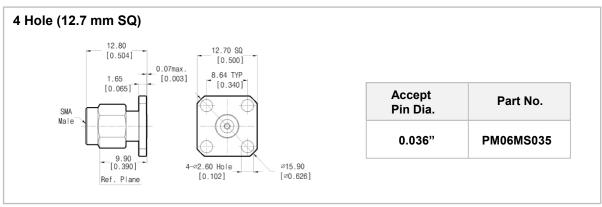


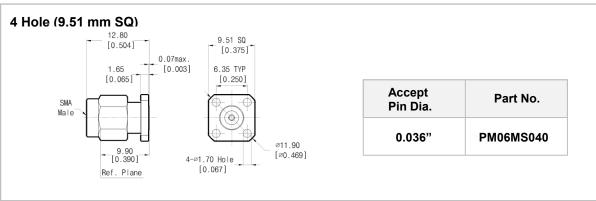


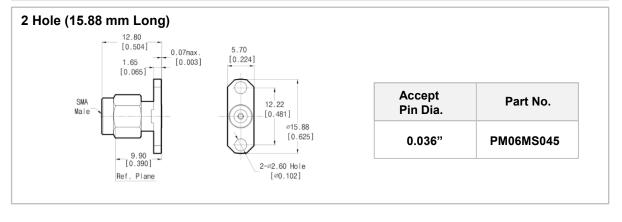
DC to 27 GHz



■ Drawing_ High Performance SMA Plug (Male)







DC to 27 GHz

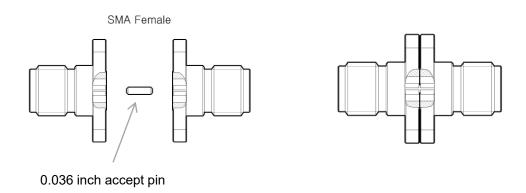


Test Result

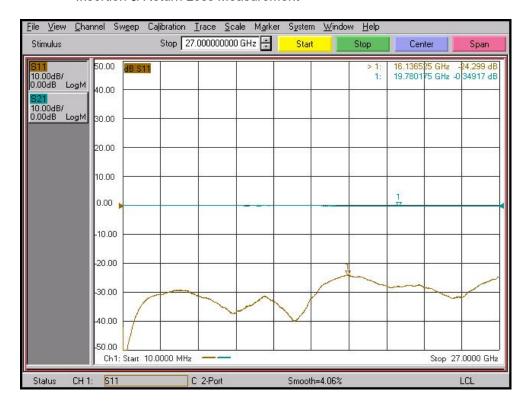
Back-to-Back Test

Female Type

Part No: PM06FS035



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



DC to 27 GHz

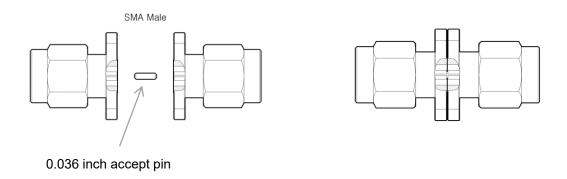


Test Result

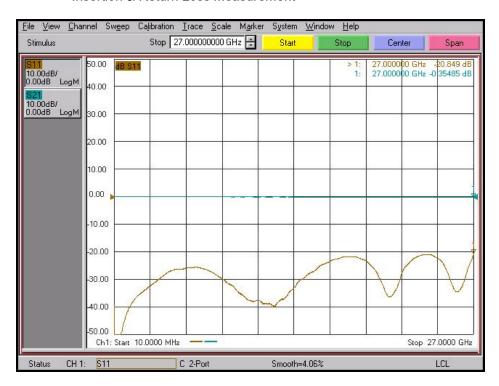
Back-to-Back Test

Male Type

Part No: PM06MS035



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



DC to 27 GHz



■ 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

DC to 27 GHz



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