

Withwave's 2.92 mm Connectors are specially designed for RF/microwave application and offer compatible mating style to SMA, 3.5 mm connectors. This field replaceable connectors are easy to install /replace and precision manufacturing allows superior electrical performance up to 40 GHz. These connectors are available with four mounting configurations and assembly is preciously controlled to ensure consistency of performance.



Specification

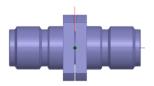
Scope	Items	Specification
	Freq. range	DC to 40 GHz
	Impedance	50 Ohm
Electrical	VSWR(Max)	1.15 :1 (DC to 18 GHz) 1.25 :1 (18 to 40 GHz)
	Insulation Resistance (Min)	5,000 megaohms
	RF Leakage	-90 dB
Material	Body	Stainless Steel (Passivated)
	Center Contact	BeCu (gold plated)
	Insulator	Special Dielectric
	Temperature	-40 to +135 degree
	Thermal Shock	MIL-STD-202, Method 107, Condition B
Environmental	Corrosion	MIL-STD-202, Method 101, Condition B
	Vibration	MIL-STD-202, Method 204, Condition D
	Moisture Resistance	MIL-STD-202, Method 106

Design Assistance

*RoHS Compliant

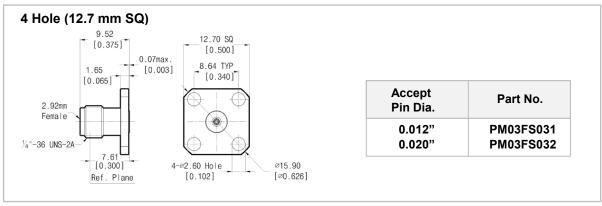
- 3D Model for Mechanical Layout (STEP file)
- ANSYS HFSS models (version 17.0 or newer) for 3D EM(Electromagnetic) Simulation

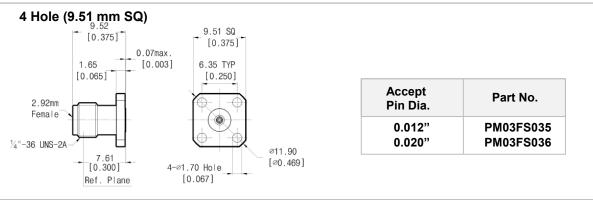


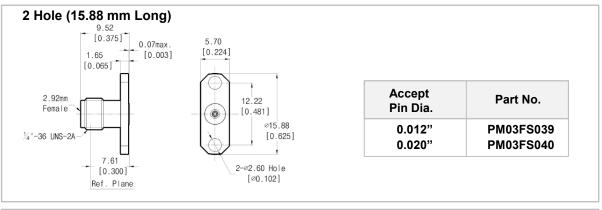


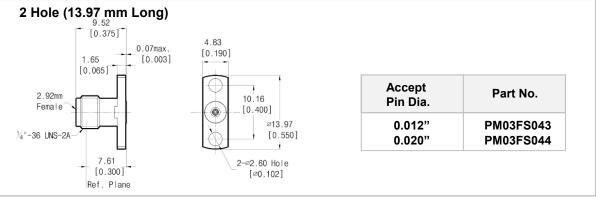


■ Drawing_2.92 mm Jack (Female)



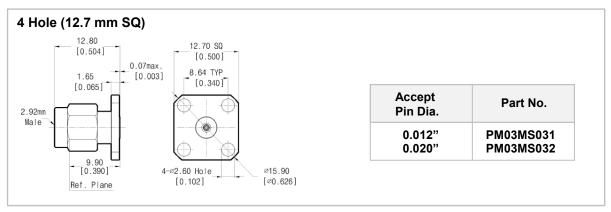


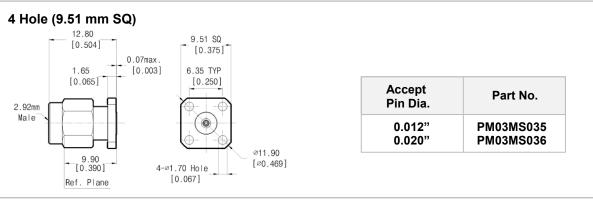


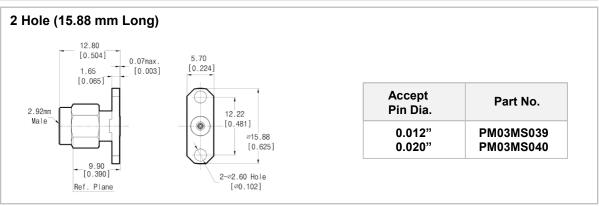


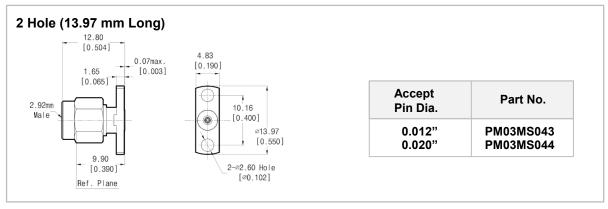


■ Drawing_2.92 mm Plug (Male)









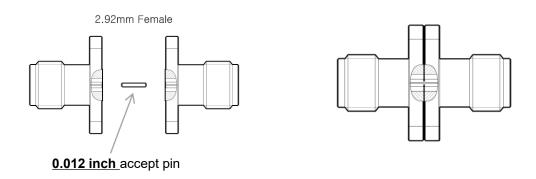


Test Result

Back-to-Back Test

Female Type

Part No: PM03FS035



- Freq. Range: 10 MHz ~40 GHz
- Insertion & Return Loss Measurement



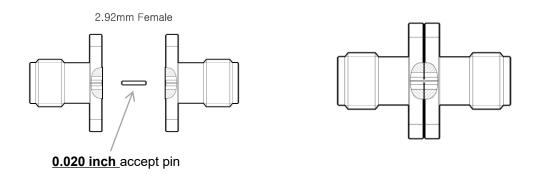


Test Result

Back-to-Back Test

Female Type

Part No: PM03FS036



- Freq. Range: 10 MHz ~40 GHz
- Insertion & Return Loss Measurement



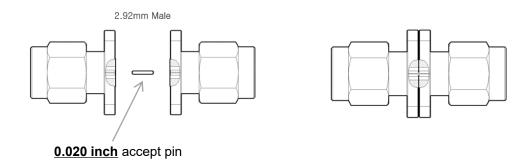


Test Result

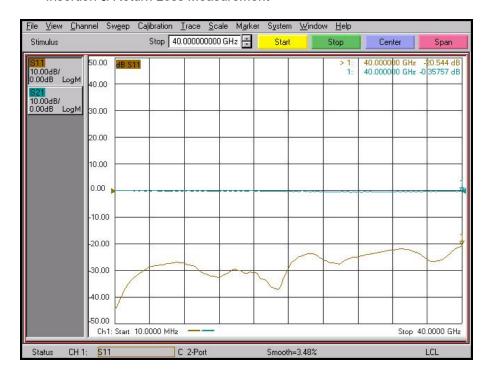
Back-to-Back Test

Male Type

Part No: PM03MS036



- Freq. Range: 10 MHz ~40 GHz
- Insertion & Return Loss Measurement





■ Competitive cross-Reference

• 4 Hole 0.500" Square

Female type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1012-01SF	PM03FS031
0.020"	1012-05SF	PM03FS032

Male type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1011-01SF	PM03MS031
0.020"	1011-05SF	PM03MS032

· 4 Hole 0.375" Square

Female type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1012-11SF	PM03FS035
0.020"	1012-16SF	PM03FS036

Male type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1011-11SF	PM03MS035
0.020"	1011-15SF	PM03MS036

· 2 Hole 0.625" Long

Female type

Accept Pin Dia.	Southwest P/N	Withwave P/N	
0.012" 0.020"	1014-01SF 1014-05SF	PM03FS039 PM03FS040	

Male type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1013-01SF	PM03MS039
0.020"	1013-05SF	PM03MS040

· 2 Hole 0.550" Long

Female type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1014-11SF	PM03FS043
0.020"	1014-15SF	PM03FS044

Male type

Accept	Southwest	Withwave
Pin Dia.	P/N	P/N
0.012"	1013-11SF	PM03MS043
0.020"	1013-15SF	PM03MS044

High Performance SMA Connectors

DC to 27 GHz



■ Revision History

Revision	Date	Changes
Ver 1.0 Ver.2.0 Ver 3.0	2016-04-01 2017-08-01 2020-03-01	Released 2.92 mm Connector Updated Drawing Add Design Assistance for ANSYS HFSS 3D simulation model