

Overview

Amphenol RF SMA Panel Mount Receptacles offer excellent VSWR performance up to 18 GHz. Various panel mounting options, including 2 and 4-hole flanges configurations, make the connector suitable for a wide variety of microwave component applications. Termination options include post contacts with extended PTFE insulators as well as solder cup, tab, and slotted contacts.

The stainless steel machined connector bodies are passivated or gold plated. Center contacts are machined from Beryllium Copper and are plated gold. Mechanical or epoxy center contact captivation ensures stability and a solid PCB connection.

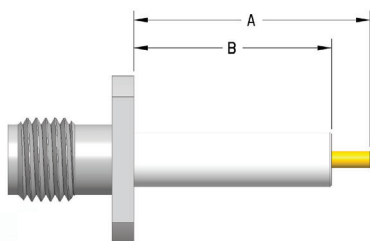
Features and Benefits

- Supports a frequency range from DC to 18 GHz
- Multiple panel mounting and flange configurations
- High strength stainless steel body with passivated or gold finish
- Custom contact and dielectric lengths available

Applications

- RF Amplifiers
- Attenuators
- Couplers
- Detectors
- Microwave Filters
- Power Dividers and Combiners
- Receivers and Transceivers
- Solid State Switches

Standard Extended Dielectric (PTFE) and Post Contact Projection (in Inches):



A	B
0.705	0.590

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

SMA Panel Mount Receptacles

2-Hole and 4-Hole Flange Panel Mount SMA Receptacles

Ordering Information

Series	901- 2 P E 705 590 A E
901 = SMA Series	
Body Style	
1 = 4-Hole Flange, 3/8" Sq.	4 = 4-Hole Flange, 1" Sq.
2 = 4-Hole Flange, 1/2" Sq.	5 = 2-Hole Flange
3 = 4-Hole Flange, 11/16" Sq.	6 = 4-Hole Flange, Right Angle, 1/2" Sq.
Body Material & Plating	
B = Brass, Gold Plated	P = Stainless Steel, Passivated
G = Stainless Steel, Gold Plated	
Termination Style	
A = Solder Cup	E = 0.036" Slot Width
B = Tab	F = Post 0.050" Diameter
C = 0.012" Slot Width	G = Post 0.010" Diameter
D = 0.018" Slot Width	
Contact Projection (Inches)	
Example: 705 = 0.705"	
Dielectric Projection (Inches)	
Example: 590 = 0.590"	
Gender and Polarity	
A = Std Polarity Jack	C = Std Polarity Plug
B = Rev Polarity Jack	
Captivation	
M = Mechanical	E = Epoxy

Standard Part Numbers

Part Number	DESCRIPTION
901-1PF705590AE	3/8" 4 hole flange receptacle, stainless steel, passivated, post contact 0.705", dielectric 0.590", std polarity jack, epoxy captivated
901-1GF705590AE	3/8" 4 hole flange receptacle, stainless steel, gold, post contact 0.705", dielectric 0.590", std polarity jack, epoxy captivated
901-1PC050000AE	3/8" 4 hole flange receptacle, stainless steel, passivated, slot post 0.500", no extended dielectric, 0.012" slot width, std polarity jack, epoxy captivated
901-1GA200000AM	3/8" 4 hole flange receptacle, stainless steel, gold, solder cup 0.200", no extended dielectric, std polarity jack, mechanical captivation
901-1PA200000AE	3/8" 4 hole flange receptacle, stainless steel, passivated, solder cup 0.200", no extended dielectric, std polarity jack, epoxy captivated
901-2PF705590AE	1/2" 4 hole flange receptacle, stainless steel, passivated, post contact 0.705", dielectric 0.590", std polarity jack, epoxy captivated
901-2PF100000AE	1/2" 4 hole flange receptacle, stainless steel, passivated, post contact 0.100", no extended dielectric, std polarity jack, epoxy captivated
901-2PF705590AM	1/2" 4 hole flange receptacle, stainless steel, passivated, post contact 0.705", dielectric 0.590", std polarity jack, mechanical captivation
901-2GF705590AM	1/2" 4 hole flange receptacle, stainless steel, gold, post contact 0.705", dielectric 0.590", std polarity jack, mechanical captivation
901-2PA200000AE	1/2" 4 hole flange receptacle, stainless steel, passivated, solder cup 0.200", no extended dielectric, std polarity jack, epoxy captivated
901-2GA200000AE	1/2" 4 hole flange receptacle, stainless steel, gold, solder cup 0.200", no extended dielectric, std polarity jack, epoxy captivated
901-2PB100000AE	1/2" 4 hole flange receptacle, stainless steel, passivated, tab contact 0.100", no extended dielectric, std polarity jack, epoxy captivated
901-2GB100000AE	1/2" 4 hole flange receptacle, stainless steel, gold, tab contact 0.100", no extended dielectric, std polarity jack, epoxy captivated
901-2PC050000AE	1/2" 4 hole flange receptacle, stainless steel, passivated, slot post 0.500", no extended dielectric, 0.012" slot width, std polarity jack, epoxy captivated
901-5GF705590AE	2 hole flange receptacle, stainless steel, gold, post contact 0.705", dielectric 0.590", std polarity jack, epoxy captivated
901-5PF705590AE	2 hole flange receptacle, stainless steel, passivated, post contact 0.705", dielectric 0.590", std polarity jack, epoxy captivated
901-5PB100000AE	2 hole flange receptacle, stainless steel, passivated, tab contact 0.100", no extended dielectric, std polarity jack, epoxy captivated
901-5GB100000AE	2 hole flange receptacle, stainless steel, gold, tab contact 0.100", no extended dielectric, std polarity jack, epoxy captivated
901-5GA200000AE	2 hole flange receptacle, stainless steel, gold, solder cup 0.200", no extended dielectric, std polarity jack, epoxy captivated
901-5PA200000AE	2 hole flange receptacle, stainless steel, passivated, solder cup 0.200", no extended dielectric, std polarity jack, epoxy captivated

* For brass/gold plated models substitute B for P in the part number

Technical Specifications

Electrical

Impedance	50 Ω	
Frequency Range	DC - 18 GHz	
VSWR	1.15:1 Max (except solder cup)	
Contact Resistance	Center Contact	2.0 m Ω
Voltage Rating (Sea Level)	500 - 1000 VRMS	
Insulation Resistance	5000 M Ω	

Environmental

Temperature Range	-65°C to +105°C	
Thermal Shock	MIL-Std. 202 Method 107 Condition B	
Vibration	MIL-Std. 202 Method 204 Condition D	
Mechanical Shock	MIL-Std. 202 Method 213, Condition I	
Humidity	MIL-STD 202 Method 106	

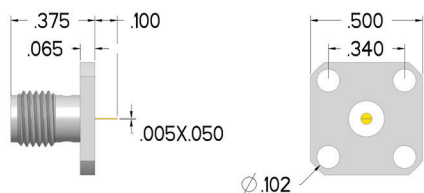
Mechanical

Mating Torque	7 - 10 Inch-pounds (Stainless Steel), 3 - 5 Inch-pounds (Brass)	
Engagement Force	2 Inch-pounds Maximum	
Disengagement Force	2 Inch-pounds Maximum	
Durability	500 Cycles Min	

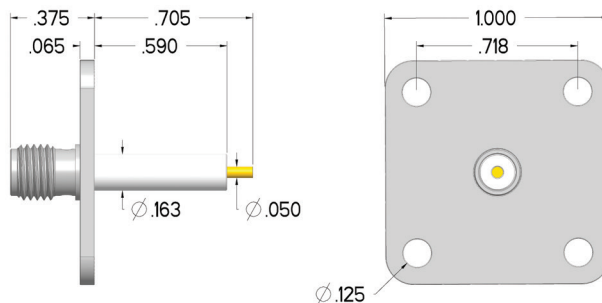
SMA Panel Jack Receptacles

Please note: The images below are examples of available termination types and flange sizes. For complete list of configurations, see ordering information on reverse side.

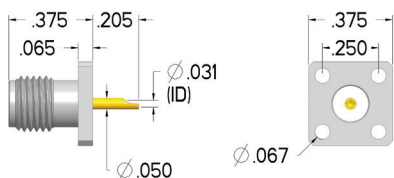
Tab Contact



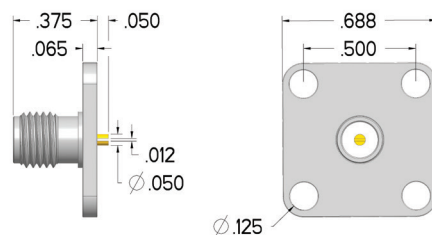
Post Termination



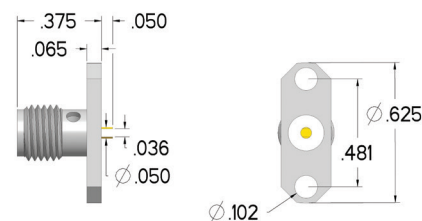
Solder Cup Contact



Slotted Contact



Slotted Contact 2-Hole Flange



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