

# QMA Series Subminiature RF Connectors

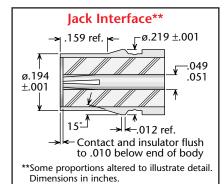
# **General Description**

Delta QMA jacks are connectors with size and performance similar to SMA connectors, but with a snap-on interface for quick mating and unmating, and brass body construction for economy. Designed to mate with all QMA plugs, they offer good electrical performance up to 6 GHz.

The PressMount mounting configuration (see below) allows QMA receptacles to be mounted securely in a single through hole, with center-to-center spacing as little as .325 inch.

New types are being added to our product line, so please call with your requirements for other QMA configurations.

## **QMA Jack Specifications\***



#### **Electrical:**

Nominal Impedance: 50 ohms. Frequency Range: DC-6 GHz.

**Voltage Rating:** 335 volts RMS (dependent on cable). **Dielectric Withstanding Voltage:** 1,000 volts RMS.

**Insulation Resistance:** 5,000 megohms.

**VSWR**: DC-3 GHz: 1.06:1 max; 3-6 GHz: 1.12:1 max.

#### Mechanical:

**Durability:** 100 mating cycles. **Force to Engage:** 26 N. **Force to Disengage:** 20 N.

#### **Materials/Finishes:**

Insulators: Teflon per ASTM D1710.

Female Contacts: Beryllium Copper per ASTM B196.

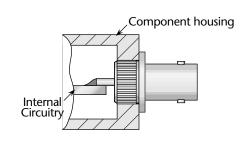
Contact Plating: Gold per MIL-G-45204.

Gaskets: Silicone rubber per ZZ-R-765, Class II, Grade 50.

Other Metal Parts: Brass per ASTM B16, gold plated per MIL-G-45204. \*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

## **QMA PressMount Receptacle—Post Contact**

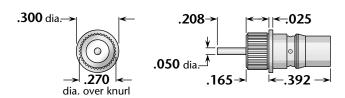
### **Delta PressMount Receptacles**



These connectors eliminate the need for complicated mounting hole patterns and mounting hardware.

They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.

PressMountreceptacles can be used in packages as small as the outer diameter of the connector body.



Minimum Panal Thickness	Mounting Hole Diameter	Plating		Delta P/N
Willimium Paner Hilckness		Body	Contact	Deita P/N
.100	.267 ±.001	Gold*	Gold (C)	4220-000-G911

## **Panel Jack Receptacles**

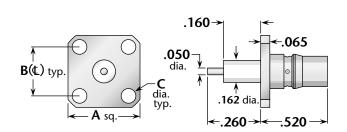


Figure 1 (Square flange)

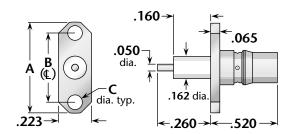


Figure 2 (Two-hole flange)

Figure	Dimensions		Mounting	Plating		Delta P/N	
	A	В	C	Figure	Body	Contact	Delta F/N
1	.500	.340	.102	05	Gold*	Gold (C)	4258-000-G051-9
2	.625	.481	.102	92	Gold*	Gold (C)	4258-000-G921-6

<sup>\*</sup> Also available with Albaloy-plated body—change G in Delta part number to Q. (C) in contact plating column indicates captive contact.