



### Overview

Amphenol RF offers a number of 50 ohm front mount bulkhead SMA and RP-SMA jacks designed to accommodate ultraminiature micro-coax cable types. These jacks are available in the straight crimp configuration and feature a threaded coupling mechanism for secure mating.

The front mount bulkhead SMA and RP-SMA jacks can be fastened inside of a panel or enclosure to provide additional security for sensitive systems. This is aided by a tamper resistant design and the flexibility of the micro-coax cables.

These connectors are part of a robust portfolio of ultraminiature products suitable for applications such as drones, test and measurement equipment, industrial automation and inspection, and Bluetooth and cellular technology.

### Features and Benefits

- Reliable electrical performance up to 6 GHz
- Threaded coupling mechanism for secure mating
- Vibration and tamper resistant design
- Ideal for applications with space constraints

### Applications

- Antennas
- Base Stations
- Drones
- Test and Measurement Equipment
- Industrial Automation and Inspection
- Bluetooth and Cellular technology
- WLAN

### Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

### Ordering Information

#### SMA Front Mount Bulkhead Jacks for Micro-Coax Cable

| Part Number | Description                                     |
|-------------|---|
| 901-10753   | SMA Straight Front Mount Jack Bulkhead, 0.81 mm |
| 901-10754   | SMA Straight Front Mount Jack Bulkhead, 1.13 mm |
| 901-10755   | SMA Straight Front Mount Jack Bulkhead, 1.32 mm |
| 901-10756   | SMA Straight Front Mount Jack Bulkhead, 1.37 mm |

#### RP-SMA Front Mount Bulkhead Jacks for Micro-Coax Cable

| Part Number | Description  |
|-------------|--|
| 901-10769   | RP-SMA Straight Front Mount Jack Bulkhead, 0.81 mm |
| 901-10770   | RP-SMA Straight Front Mount Jack Bulkhead, 1.13 mm |
| 901-10771   | RP-SMA Straight Front Mount Jack Bulkhead, 1.32 mm |
| 901-10772   | RP-SMA Straight Front Mount Jack Bulkhead, 1.37 mm |
| 901-10773   | RP-SMA Straight Front Mount Jack Bulkhead, RG-178  |

#### IP67 RP-SMA Front Mount Bulkhead Jacks for Micro-Coax Cable

| Part Number | Description  |
|-------------|--|
| 901-10804   | RP-SMA Straight Front Mount Jack Bulkhead, 0.81 mm, IP67 |
| 901-10805   | RP-SMA Straight Front Mount Jack Bulkhead, 1.13 mm, IP67 |
| 901-10806   | RP-SMA Straight Front Mount Jack Bulkhead, 1.32 mm, IP67 |
| 901-10807   | RP-SMA Straight Front Mount Jack Bulkhead, 1.37 mm, IP67 |

# Amphenol® RF

## Technical Specifications

### Electrical

|                                 |            |                        |
|---------------------------------|------------|------------------------|
| Impedance                       |            | 50Ω                    |
| Frequency Range                 |            | DC - 6 GHz             |
| Voltage Rating                  |            | 166 RMS Max Continuous |
| Dielectric Withstanding Voltage |            | 500 VRMS Min           |
| VSWR (Return Loss)              | DC – 3 GHz | 1.3 Max                |
|                                 | 3 – 6 GHz  | 1.4 Max                |
| Insulation Resistance           |            | 5000 MΩ Min            |
| Center Contact Resistance       |            | 3.0 mΩ Min             |
| Outer Contact Resistance        |            | 2.0 mΩ Min             |

### Environmental

|                   |  |                             |
|-------------------|--|-----------------------------|
| Temperature Range |  | -65°C to +165°C             |
| RoHS Compliance   |  | Compliant with Exemption 6C |

### Mechanical

|                    |  |          |
|--------------------|--|----------|
| Mating Cycles      |  | 500 Min  |
| Coupling Mechanism |  | Threaded |

### Materials

|           |  |                                |
|-----------|--|--------------------------------|
| Body      |  | Brass, Gold Plating            |
| Contact   |  | Beryllium Copper, Gold Plating |
| Insulator |  | PTFE, Natural                  |

*Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.*

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