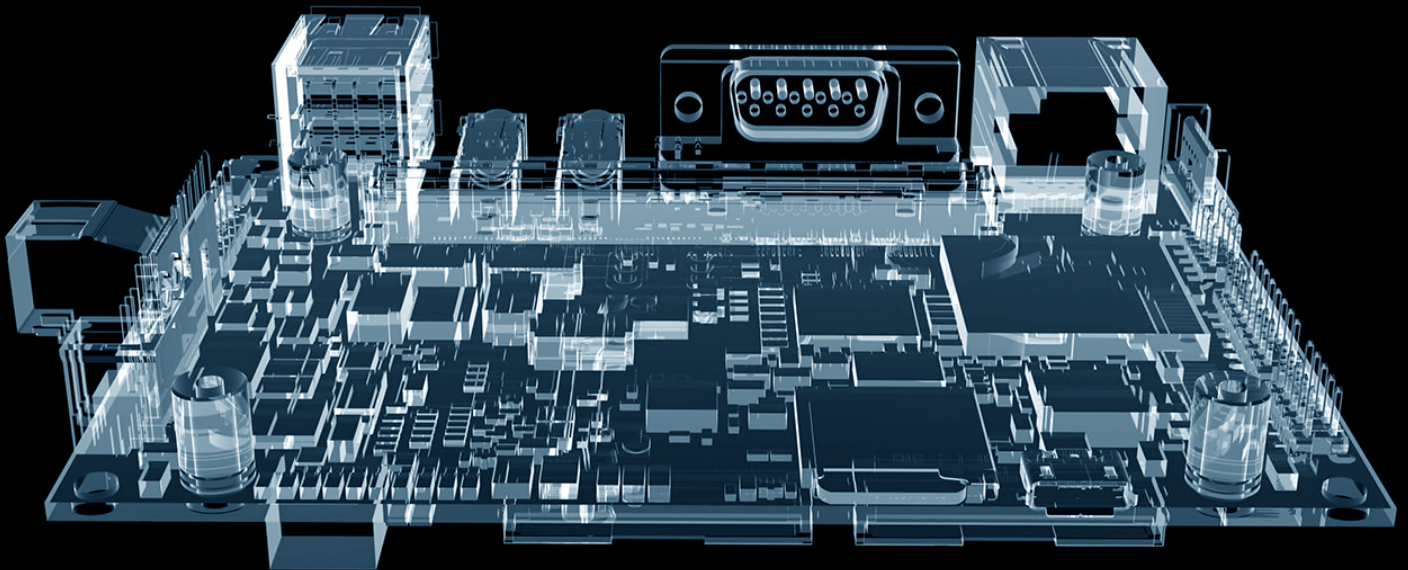


# SMA Extended Frequency

26.5 - GHz

27.0 - GHz



## Extended-Frequency SMA Connectors

This brochure introduces two new series of connectors that extend SMA performance beyond the MIL-PRF-39012 upper frequency limit of 18 GHz, while maintaining MIL-STD-348 mating characteristics for backward compatibility with standard SMA connectors when required.

With both 26.5-GHz precision types and 27.0-GHz high-performance types available, you can choose the best price / performance balance for your application, with no need to “overspecify.” This brochure features configurations to fulfill most standard applications, but any item shown can be customized for your specific needs.

### SMA 26.5-GHz Connectors (Page 2)

These extended-frequency, precision SMA series connectors feature maximum VSWR of 1.15:1 from DC to 18 GHz, and 1.25:1 from 18 to 26.5 GHz.

Along with cable connectors for semi-rigid cable, our SMA 26.5-GHz line includes receptacles with post contacts and integral metal contact rings, and field-replaceable types in a variety of flange sizes. These field-replaceable receptacles are available as jacks or plugs, each with a choice of air or PTFE rear dielectric matching sections, and with or without EMI gaskets.

The field-replaceable receptacles are available for use with hermetic seals or accessory pins with diameters of .012, .015, .018, .020, or .036 inches. Standard hermetic seals are also shown in this brochure, and can be modified to a wide range of configurations to match your application requirements.

Three types of SMA 26.5-GHz adapters are also included in this series, as are bulkhead receptacles.

#### Performance Features:

Mode free through 26.5 GHz

Low reflection loss (VSWR)

Low Insertion Loss

Low RF Leakage > -100 dB

Consistent Unit to Unit Performance

All materials meet the Outgassing Requirements of NASA Publication 1124

### SMA 27.0-GHz Connectors (Page 16)

These high-performance SMA connectors feature maximum VSWR of 1.10:1 from DC to 18 GHz, and 1.15:1 from 18 to 27.0 GHz.

They are designed to provide enhanced durability and reliability in a “field grade” production connector.

The internal design is optimized using state-of-the-art Electromagnetic Finite Element Analysis model simulation to provide low reflection coefficient, with mode free operation to 27.0 GHz.

In addition, this connector series provides -100 dB RF leakage due to the precision finish on the interface and mounting surfaces to assure a solid 360-degree contact in the critical RF return path, and the absence of epoxy holes in the connector body. The design of the internal structure provides a reliable and symmetrical axial captivation by mechanical means with a minimal disturbance to the transmission line characteristics and has a maximum continuous service temperature of 165° C.

SMA 27.0 GHz field replaceable connectors are available in six common mounting flange configurations. Both the field replaceable and thread-in (spark plug) connectors are available for use with hermetic seals or accessory pins with diameters of .009, .012, .015, .018, .020, and .036 inches. Standard hermetic seals are also shown in this brochure, and can be modified to a wide range of configurations to match your application requirements.

These connectors are machined to exacting tolerances and the highest quality standards on modern CNC turning centers, and assembly is tightly controlled and monitored to ensure peak consistency of performance from unit to unit.

#### Performance Features:

Mode free through 27.0 GHz

Low reflection loss (VSWR)

Low Insertion Loss

Low RF Leakage > -100 dB

Extended Operating Temperature (+165° C)

Phase Stable

Consistent Unit to Unit Performance

Rigid center contact captivation using high temperature Ultem 1000 support bead

All materials meet the Outgassing Requirements of NASA Publication 1124

## General Description

These extended-frequency, precision SMA connectors feature maximum VSWR of 1.15:1 from DC to 18 GHz, and 1.25:1 from 18 to 26.5 GHz.

Along with cable connectors for semi-rigid cable, our SMA 26.5-GHz line includes receptacles with post contacts and integral metal contact rings, and field-replaceable types in a variety of flange sizes. These field-replaceable receptacles are available as jacks or plugs, each with a choice of air or PTFE rear dielectric matching sections, and with or without EMI gaskets.

The field-replaceable receptacles are available for use with hermetic seals or accessory pins with diameters of .012, .015, .018, .020, or .036 inches. Standard hermetic seals are also shown in this brochure, and can be modified to a wide range of configurations to match your application requirements.

Three types of SMA 26.5-GHz adapters are also included in this series, as are bulkhead receptacles.

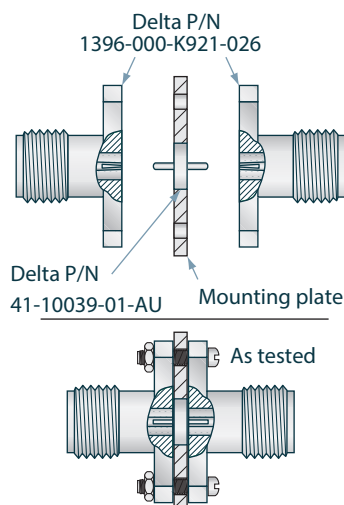
We are continually expanding our SMA 26.5-GHz product line and other high-frequency products, so please call if you don't see what you need.

## Contents

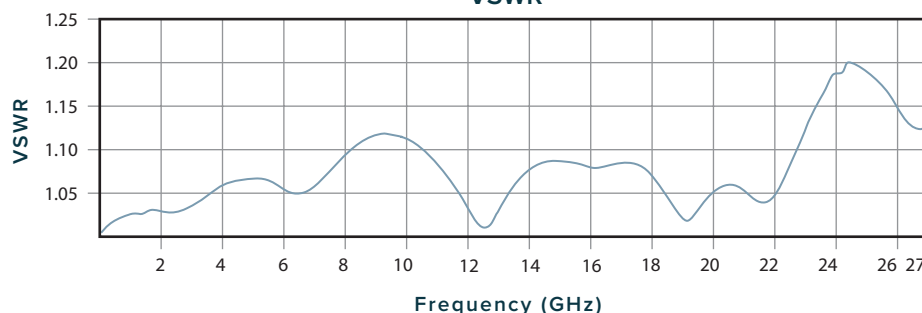
|                                               |    |                                   |    |
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## Test Data

### Test Setup



### VSWR



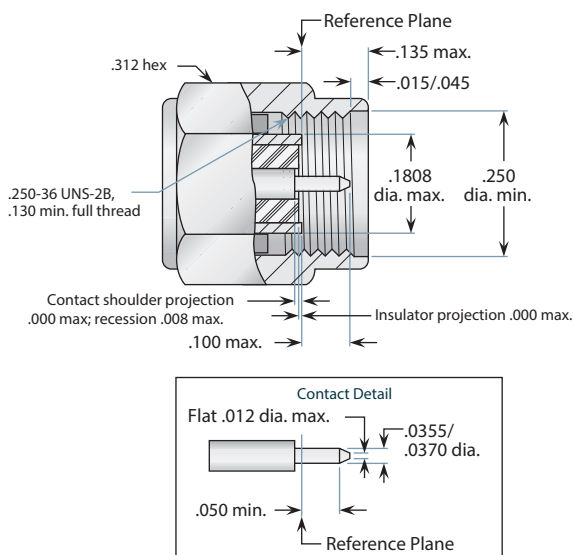
Two connectors tested, mounted back-to-back with a hermetic seal as shown at left. Maximum VSWR 1.20:1 @ 24.36 GHz (1.095:1 for each connector.)

These results are typical and valid only for connectors set up for testing in the configuration shown. Hermetic seal attachment method and other circuitry characteristics will affect VSWR of the completed component.

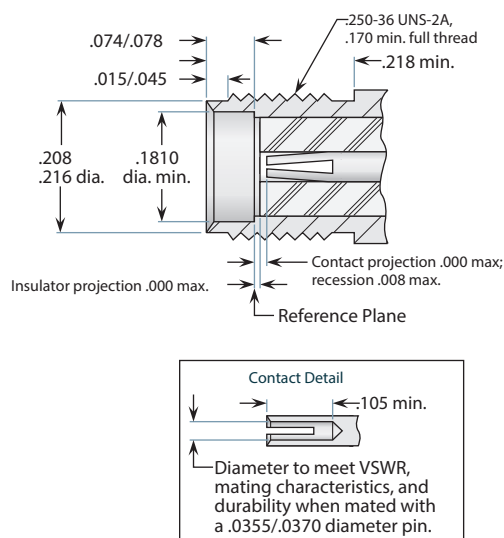
See next page for interface dimensions and specifications.

## SMA 26.5 GHz Interfaces

### Plug Interface \*\*



### Jack Interface \*\*



\*\* Per MIL-STD-348, figures 310-1 and 310-2. Some proportions altered to illustrate detail.

## SMA 26.5 GHz Specifications \*

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–26.5 GHz.

**Voltage Rating:** 335 Volts RMS (@ sea level).

**VSWR:** DC–18 GHz: 1.15:1 maximum;

18–26.5 GHz: 1.25:1 maximum.

**RF Transmission Loss:**  $.03 \times \sqrt{f \text{ (GHz)}}$  dB.

**Dielectric Withstanding Voltage:** 1000 Volts RMS  
(@ sea level).

**RF Hipot:** 670 Volts RMS @5 MHz.

**Insulation Resistance:** 10,000 megohms.

**RF Leakage:** -100 dB minimum @3 GHz.

**Contact Resistance:** Center contact: 3.0 milliohms maximum;  
Outer contact: 2.0 milliohms maximum.

### Mechanical:

**Force to Engage:** 2 inch-pounds maximum.

**Coupling Nut Retention:** 60 pounds minimum (plugs only).

**Coupling Proof Torque:** 15 inch-pounds minimum (plugs only).

**Contact Insertion Force:** Insertion: 2 pounds maximum;  
withdrawal: 1 ounce minimum.

**Durability:** 500 mating cycles minimum.

**Mating Torque:** 7–10 inch-pounds.

### Materials/Finishes:

**Insulators:** Teflon PTFE per ASTM D1710.

**Contacts:** Beryllium Copper (Alloy C17300) per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

**Other Metal Parts:** Type 303 Stainless steel per ASTM A582,  
plated gold per MIL-G-45204 or passivated per AMS-QQ-P-35.

**Gaskets:** Silicone rubber per A-A-59588.

**EMI Gaskets:** Conductive elastomer per MIL-G-83528, type F.

### Environmental:

**Operating Temperature:** -65 to +125° C.

**Vibration:** Per MIL-STD-202, Method 204, test condition D.

**Shock:** Per MIL-STD-202, Method 213, test condition I.

**Thermal Shock:** Per MIL-STD-202, Method 107, test condition A.

**Corrosion (Salt Atmosphere):** Per MIL-STD-202, Method  
101, test condition B.

**Moisture Resistance:** Per MIL-STD-202, Method 106, no  
measurements at high humidity. Insulation resistance 200  
megohms minimum with 5 minutes of removal from  
humidity.

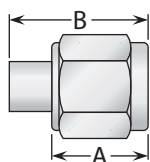
**All materials meet outgassing requirements of  
NASA Publication 1124.**

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-PRF-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

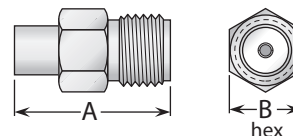
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

## Cable Connectors - Direct Solder For Semi-Rigid Cable

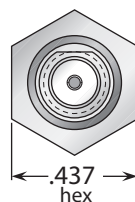
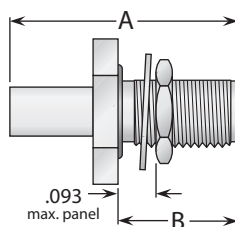
**Figure 1**  
(Straight plug)



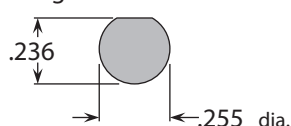
**Figure 2**  
(Straight jack)



**Figure 3**  
(Bulkhead jack, with mounting gasket)



Mounting Hole Dimensions



| Cable Group | Figure | Dimensions |      | Plating                 |         | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|--------|------------|------|-------------------------|---------|-----------------|------------------------------|
|             |        | A          | B    | Body                    | Contact |                 |                              |
| 13          | 1      | .330       | .440 | Gold/PCN <sup>(1)</sup> | Gold    | 1301031K003-900 | H/01                         |
| 13          | 2      | .500       | .250 | Gold                    | Gold    | 1308031G003-900 | H/01                         |
| 13          | 3      | .625       | .415 | Gold                    | Gold    | 1317031G673-900 | H/01                         |
| 14          | 1      | .330       | .440 | Gold/PCN <sup>(1)</sup> | Gold    | 1301025K003-900 | H/01                         |
| 14          | 2      | .500       | .250 | Gold                    | Gold    | 1308025G003-900 | H/01                         |
| 14          | 3      | .625       | .415 | Gold                    | Gold    | 1317025G673-900 | H/01                         |

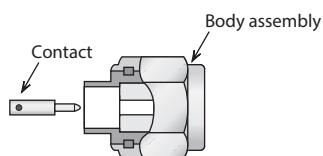
<sup>(1)</sup> Gold-plated body and passivated coupling nut.

## Cable Groups

**13:** .141" semi-rigid; RG-402; M17/130

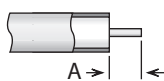
**14:** .085" semi-rigid; RG-405; M17/133

## Assembly Procedure H

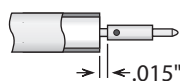


### Trim Codes

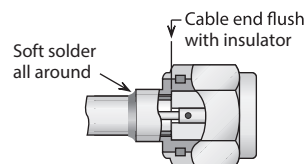
| Code | A    |
|------|------|
| H/01 | .090 |



1) Trim cable as shown. Remove any burrs from jacket and center conductor.



2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.

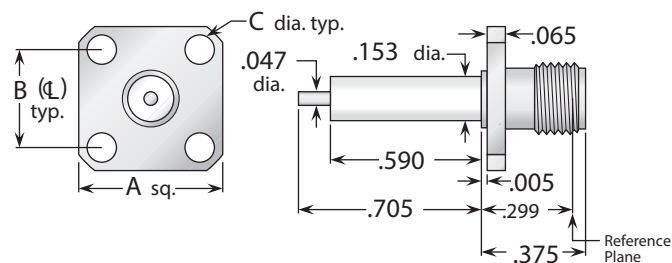


3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

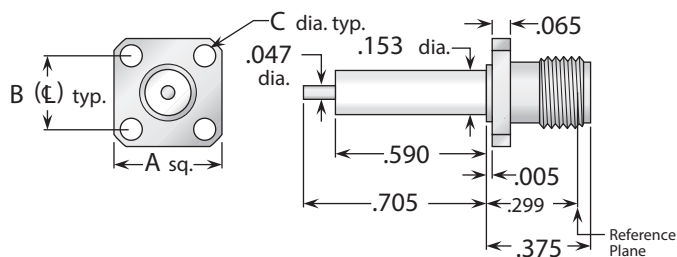
Plug body assembly and contact shown; procedure is identical for jack connectors.

## Panel Receptacles - Post Contact

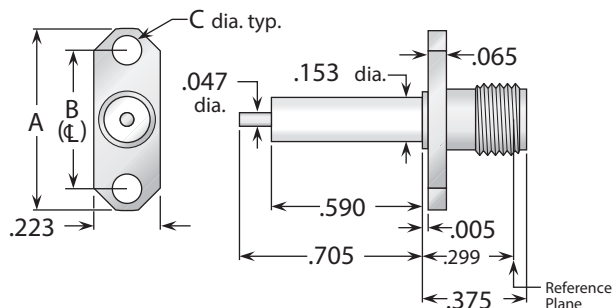
### Jack Receptacles



**Figure 1** (1/2" square flange)

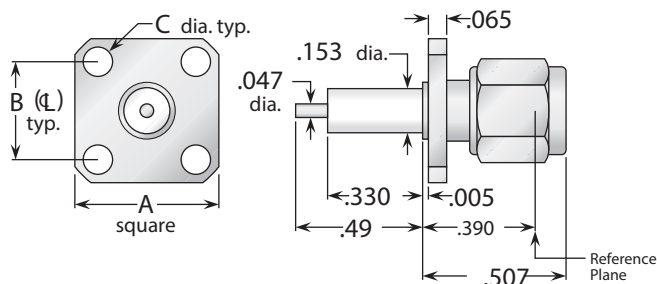


**Figure 2** (3/8" square flange)

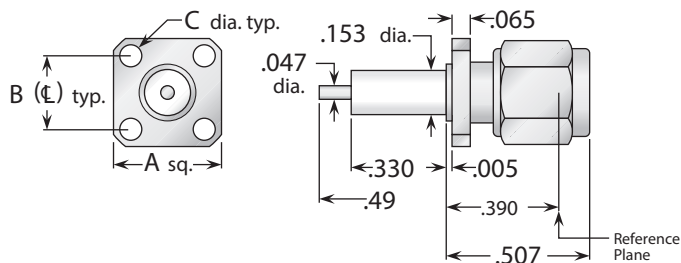


**Figure 3** (2-hole flange)

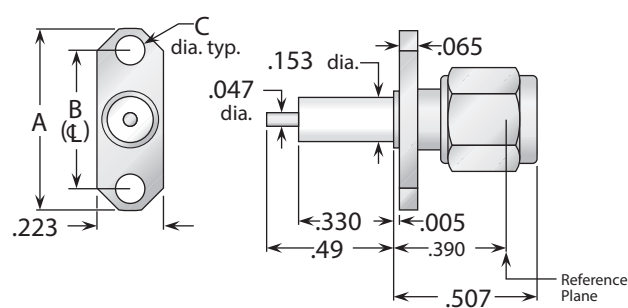
### Plug Receptacles



**Figure 4** (1/2" square flange)



**Figure 5** (3/8" square flange)

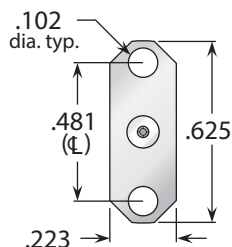


**Figure 6** (2-hole flange)

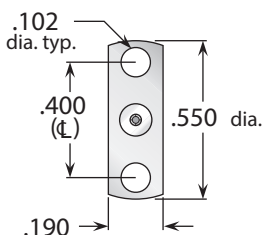
| Figure | Dimensions |      |      | Plating    |          | Delta P/N       |
|--------|------------|------|------|------------|----------|-----------------|
|        | A          | B    | C    | Body       | Contact  |                 |
| 1      | .500       | .340 | .102 | Gold       | Gold (C) | 1358000G051-900 |
| 1      | .500       | .340 | .102 | Passivated | Gold (C) | 1358000K051-900 |
| 2      | .375       | .250 | .067 | Gold       | Gold (C) | 1358000G911-900 |
| 2      | .375       | .250 | .067 | Passivated | Gold (C) | 1358000K911-900 |
| 3      | .625       | .481 | .102 | Gold       | Gold (C) | 1358000G921-900 |
| 3      | .625       | .481 | .102 | Passivated | Gold (C) | 1358000K921-900 |
| 4      | .500       | .340 | .102 | Gold       | Gold (C) | 1359000G051-900 |
| 4      | .500       | .340 | .102 | Passivated | Gold (C) | 1359000K051-900 |
| 5      | .375       | .250 | .067 | Gold       | Gold (C) | 1359000G911-900 |
| 5      | .375       | .250 | .067 | Passivated | Gold (C) | 1359000K911-900 |
| 6      | .625       | .481 | .102 | Gold       | Gold (C) | 1359000G921-900 |
| 6      | .625       | .481 | .102 | Passivated | Gold (C) | 1359000K921-900 |

These receptacles are also available with other flange sizes and contact / insulator configurations.  
 (C) in contact plating column indicates captive contact.

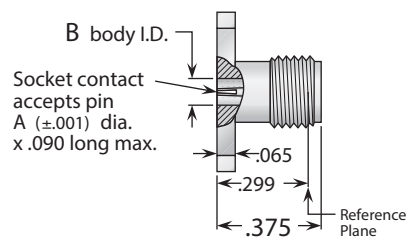
## Panel Jack Receptacles - Field Replaceable, Air Dielectric (No EMI Gasket)



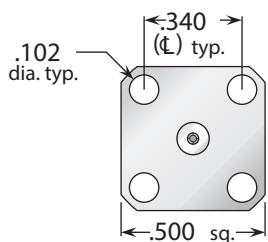
**Figure 1**  
(Standard 2-hole flange)



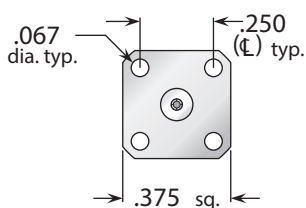
**Figure 2**  
(Narrow 2-hole flange)



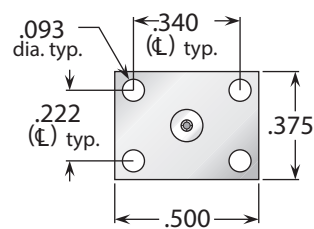
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

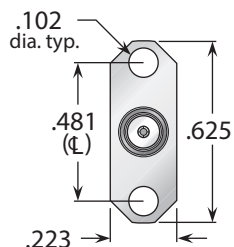


**Figure 5**  
(1/2" x 3/8" rectangular flange)

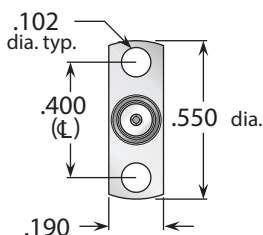
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N       |
|---------------|------------------|---------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                 |
| 1             | .012             | .078          | Passivated | Gold (C) | 1396000K921-025 |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K921-026 |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K921-027 |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K921-028 |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K921-029 |
| 2             | .012             | .078          | Passivated | Gold (C) | 1396000K911-029 |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-030 |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-031 |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-032 |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-033 |
| 3             | .012             | .078          | Passivated | Gold (C) | 1396000K051-015 |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K051-016 |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K051-017 |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K051-018 |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K051-019 |
| 4             | .012             | .078          | Passivated | Gold (C) | 1396000K911-023 |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-024 |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-025 |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-026 |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-027 |
| 5             | .012             | .078          | Passivated | Gold (C) | 1396000K911-042 |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-043 |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-044 |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-045 |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-046 |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

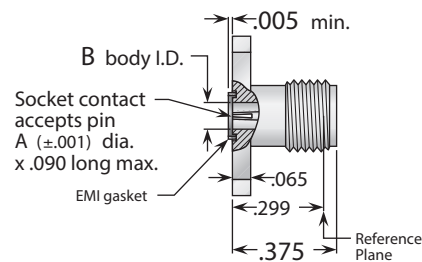
## Panel Jack Receptacles - Field Replaceable, Air Dielectric (With EMI Gasket)



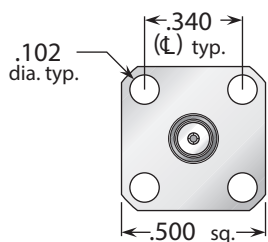
**Figure 1**  
(Standard 2-hole flange)



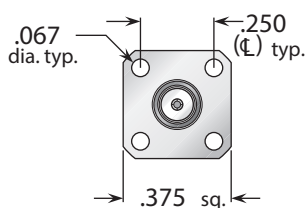
**Figure 2**  
(Narrow 2-hole flange)



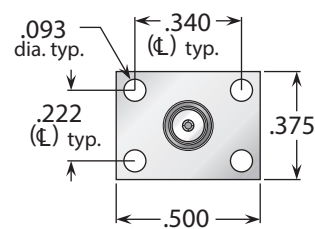
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

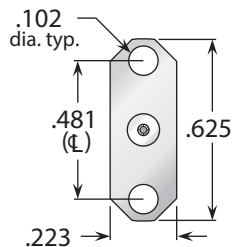


**Figure 5**  
(1/2" x 3/8" rectangular flange)

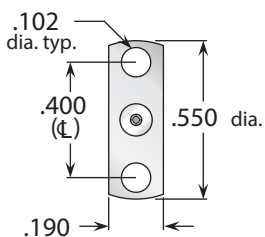
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N           |
|---------------|------------------|---------------|------------|----------|---------------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                     |
| 1             | .012             | .078          | Passivated | Gold (C) | 1396000K921-025-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K921-026-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K921-027-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K921-028-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K921-029-EMI |
| 2             | .012             | .078          | Passivated | Gold (C) | 1396000K911-029-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-030-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-031-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-032-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-033-EMI |
| 3             | .012             | .078          | Passivated | Gold (C) | 1396000K051-015-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K051-016-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K051-017-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K051-018-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K051-019-EMI |
| 4             | .012             | .078          | Passivated | Gold (C) | 1396000K911-023-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-024-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-025-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-026-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-027-EMI |
| 5             | .012             | .078          | Passivated | Gold (C) | 1396000K911-042-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1396000K911-043-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1396000K911-044-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1396000K911-045-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1396000K911-046-EMI |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

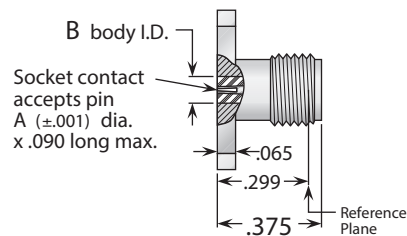
## Panel Jack Receptacles - Field Replaceable, PTFE Dielectric (No EMI Gasket)



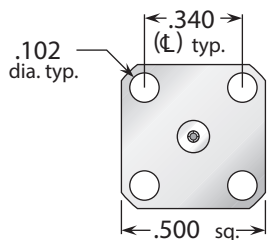
**Figure 1**  
(Standard 2-hole flange)



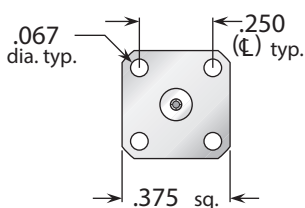
**Figure 2**  
(Narrow 2-hole flange)



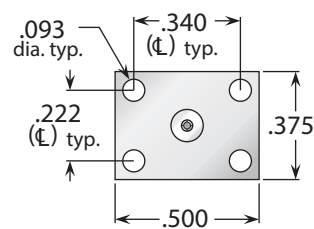
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

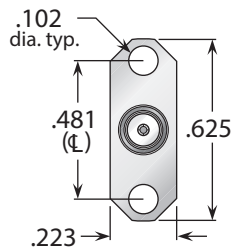


**Figure 5**  
(1/2" x 3/8" rectangular flange)

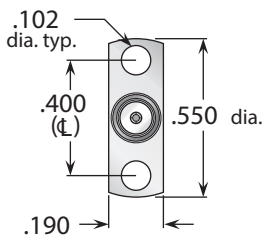
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N       |
|---------------|------------------|---------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                 |
| 1             | .012             | .104          | Passivated | Gold (C) | 1396000K921-021 |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K921-022 |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K921-023 |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K921-024 |
| 2             | .012             | .104          | Passivated | Gold (C) | 1396000K911-034 |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-035 |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-036 |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-037 |
| 3             | .012             | .104          | Passivated | Gold (C) | 1396000K051-020 |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K051-021 |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K051-022 |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K051-023 |
| 4             | .012             | .104          | Passivated | Gold (C) | 1396000K911-038 |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-039 |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-040 |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-041 |
| 5             | .012             | .104          | Passivated | Gold (C) | 1396000K911-047 |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-048 |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-049 |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-050 |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

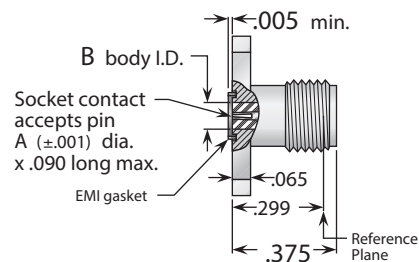
## Panel Jack Receptacles - Field Replaceable, PTFE Dielectric (With EMI Gasket)



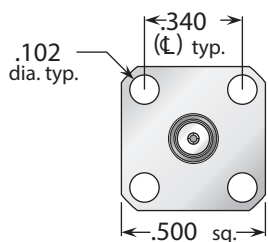
**Figure 1**  
(Standard 2-hole flange)



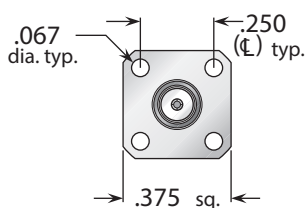
**Figure 2**  
(Narrow 2-hole flange)



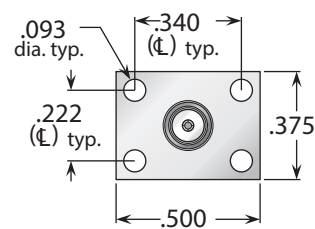
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

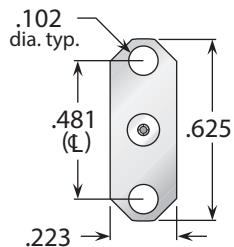


**Figure 5**  
(1/2" x 3/8" rectangular flange)

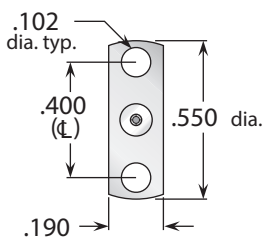
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N           |
|---------------|------------------|---------------|------------|----------|---------------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                     |
| 1             | .012             | .104          | Passivated | Gold (C) | 1396000K921-021-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K921-022-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K921-023-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K921-024-EMI |
| 2             | .012             | .104          | Passivated | Gold (C) | 1396000K911-034-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-035-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-036-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-037-EMI |
| 3             | .012             | .104          | Passivated | Gold (C) | 1396000K051-020-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K051-021-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K051-022-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K051-023-EMI |
| 4             | .012             | .104          | Passivated | Gold (C) | 1396000K911-038-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-039-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-040-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-041-EMI |
| 5             | .012             | .104          | Passivated | Gold (C) | 1396000K911-047-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1396000K911-048-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1396000K911-049-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1396000K911-050-EMI |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

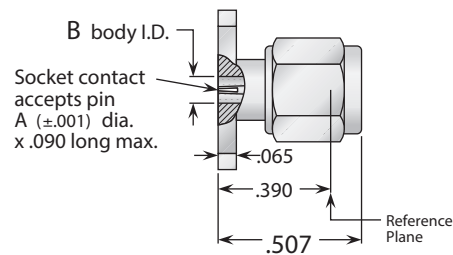
## Panel Plug Receptacles - Field Replaceable, PTFE Dielectric (With EMI Gasket)



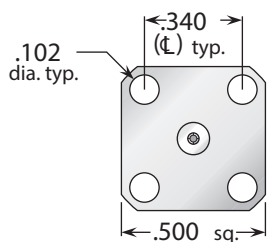
**Figure 1**  
(Standard 2-hole flange)



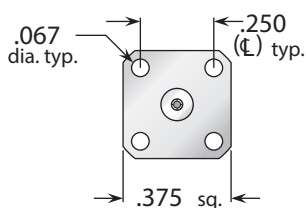
**Figure 2**  
(Narrow 2-hole flange)



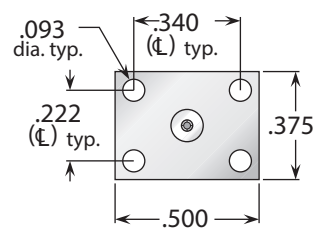
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

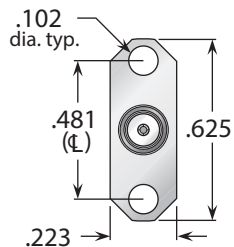


**Figure 5**  
(1/2" x 3/8" rectangular flange)

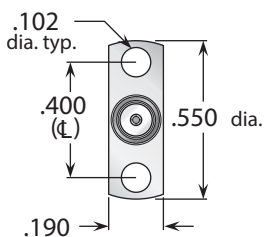
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N       |
|---------------|------------------|---------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                 |
| 1             | .012             | .078          | Passivated | Gold (C) | 1397000K921-017 |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K921-018 |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K921-019 |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K921-020 |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K921-021 |
| 2             | .012             | .078          | Passivated | Gold (C) | 1397000K911-011 |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-012 |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-013 |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-014 |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-015 |
| 3             | .012             | .078          | Passivated | Gold (C) | 1397000K051-011 |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K051-012 |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K051-013 |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K051-014 |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K051-015 |
| 4             | .012             | .078          | Passivated | Gold (C) | 1397000K911-020 |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-021 |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-022 |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-023 |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-024 |
| 5             | .012             | .078          | Passivated | Gold (C) | 1397000K911-029 |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-030 |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-031 |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-032 |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-033 |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

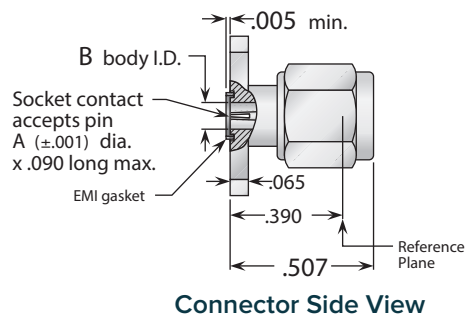
## Panel Plug Receptacles - Field Replaceable, PTFE Dielectric (With EMI Gasket)



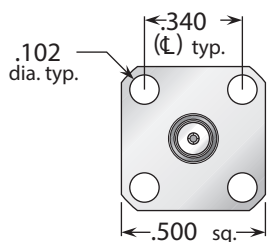
**Figure 1**  
(Standard 2-hole flange)



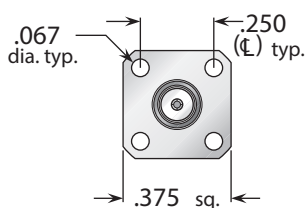
**Figure 2**  
(Narrow 2-hole flange)



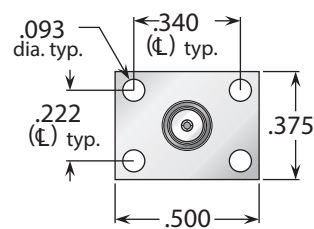
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

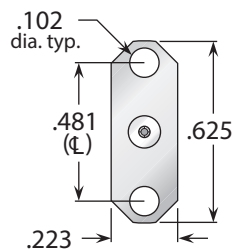


**Figure 5**  
(1/2" x 3/8" rectangular flange)

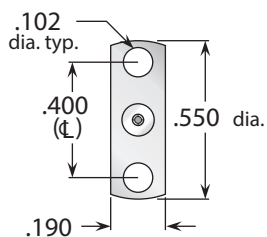
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N           |
|---------------|------------------|---------------|------------|----------|---------------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                     |
| 1             | .012             | .078          | Passivated | Gold (C) | 1397000K921-017-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K921-018-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K921-019-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K921-020-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K921-021-EMI |
| 2             | .012             | .078          | Passivated | Gold (C) | 1397000K911-011-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-012-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-013-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-014-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-015-EMI |
| 3             | .012             | .078          | Passivated | Gold (C) | 1397000K051-011-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K051-012-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K051-013-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K051-014-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K051-015-EMI |
| 4             | .012             | .078          | Passivated | Gold (C) | 1397000K911-020-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-021-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-022-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-023-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-024-EMI |
| 5             | .012             | .078          | Passivated | Gold (C) | 1397000K911-029-EMI |
|               | .015             | .078          | Passivated | Gold (C) | 1397000K911-030-EMI |
|               | .018             | .078          | Passivated | Gold (C) | 1397000K911-031-EMI |
|               | .020             | .078          | Passivated | Gold (C) | 1397000K911-032-EMI |
|               | .036             | .110          | Passivated | Gold (C) | 1397000K911-033-EMI |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

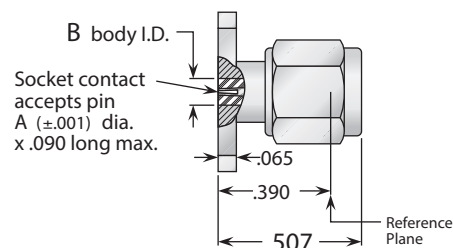
## Panel Plug Receptacles - Field Replaceable, PTFE Dielectric (With EMI Gasket)



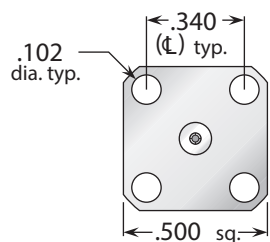
**Figure 1**  
(Standard 2-hole flange)



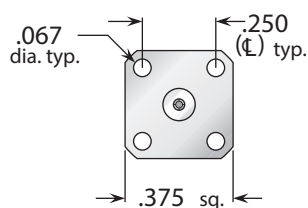
**Figure 2**  
(Narrow 2-hole flange)



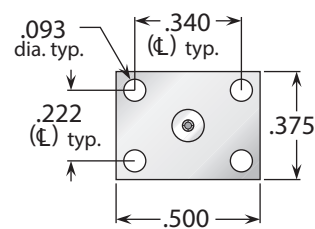
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

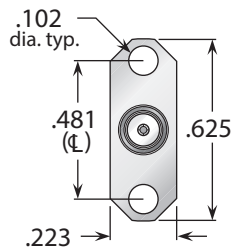


**Figure 5**  
(1/2" x 3/8" rectangular flange)

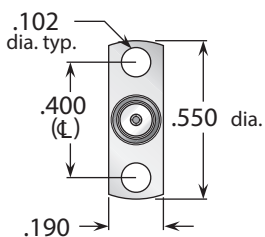
| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N       |
|---------------|------------------|---------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                 |
| 1             | .012             | .104          | Passivated | Gold (C) | 1397000K921-022 |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K921-023 |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K921-024 |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K921-025 |
| 2             | .012             | .104          | Passivated | Gold (C) | 1397000K911-016 |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-017 |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-018 |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-019 |
| 3             | .012             | .104          | Passivated | Gold (C) | 1397000K051-016 |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K051-017 |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K051-018 |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K051-019 |
| 4             | .012             | .104          | Passivated | Gold (C) | 1397000K911-025 |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-026 |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-027 |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-028 |
| 5             | .012             | .104          | Passivated | Gold (C) | 1397000K911-034 |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-035 |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-036 |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-037 |

See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

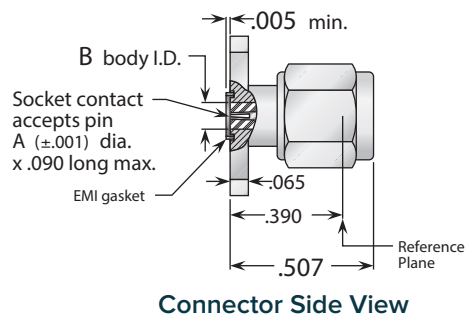
## Panel Plug Receptacles - Field Replaceable, PTFE Dielectric (With EMI Gasket)



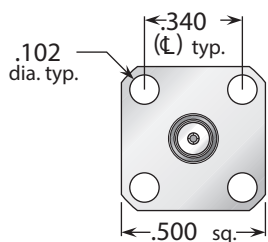
**Figure 1**  
(Standard 2-hole flange)



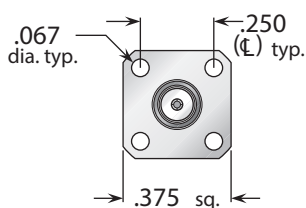
**Figure 2**  
(Narrow 2-hole flange)



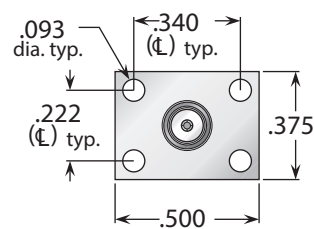
**Connector Side View**



**Figure 3**  
(1/2" square flange)



**Figure 4**  
(3/8" square flange)

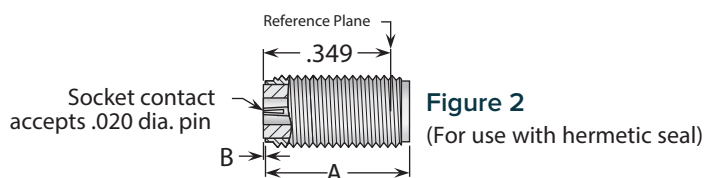
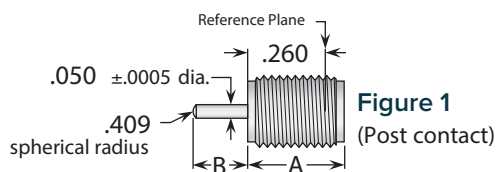


**Figure 5**  
(1/2" x 3/8" rectangular flange)

| Flange Figure | Dimensions       |               | Plating    |          | Delta P/N           |
|---------------|------------------|---------------|------------|----------|---------------------|
|               | A (Pin Diameter) | B (Body I.D.) | Body       | Contact  |                     |
| 1             | .012             | .104          | Passivated | Gold (C) | 1397000K921-022-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K921-023-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K921-024-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K921-025-EMI |
| 2             | .012             | .104          | Passivated | Gold (C) | 1397000K911-016-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-017-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-018-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-019-EMI |
| 3             | .012             | .104          | Passivated | Gold (C) | 1397000K051-016-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K051-017-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K051-018-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K051-019-EMI |
| 4             | .012             | .104          | Passivated | Gold (C) | 1397000K911-025-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-026-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-027-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-028-EMI |
| 5             | .012             | .104          | Passivated | Gold (C) | 1397000K911-034-EMI |
|               | .015             | .104          | Passivated | Gold (C) | 1397000K911-035-EMI |
|               | .018             | .104          | Passivated | Gold (C) | 1397000K911-036-EMI |
|               | .020             | .104          | Passivated | Gold (C) | 1397000K911-037-EMI |

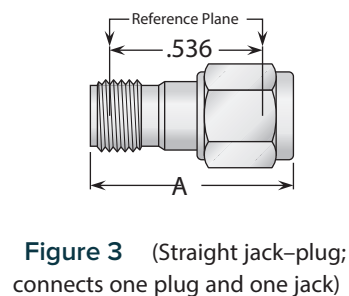
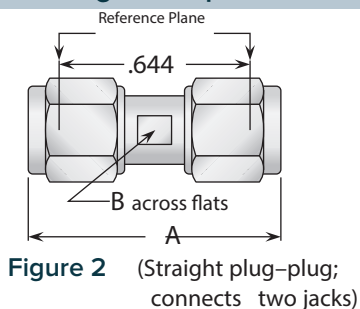
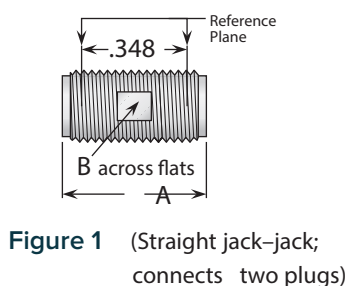
See page 15 for accessory pins. • See page 16 for hermetic seals. • (C) indicates captive contact.

## Bulkhead Replaceable



| Figure | Dimensions |           | Plating    |          | Delta P/N       |
|--------|------------|-----------|------------|----------|-----------------|
|        | A          | B         | Body       | Contact  |                 |
| 1      | .336       | .185      | Gold       | Gold (C) | 1321000G821-900 |
| 1      | .336       | .185      | Passivated | Gold (C) | 1321000K821-900 |
| 2      | .425       | .002/.006 | Gold       | Gold (C) | 1321000G821-901 |
| 2      | .425       | .002/.006 | Passivated | Gold (C) | 1321000K821-901 |

## Straight Adapters

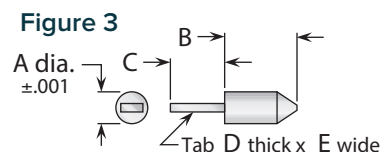
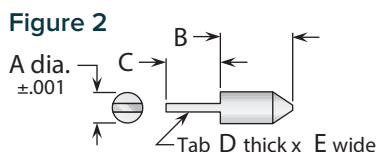
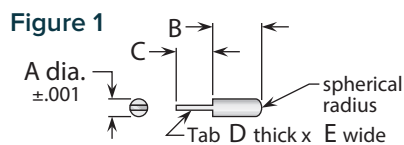


| Figure | Dimensions |      | Plating    |          | Delta P/N       |
|--------|------------|------|------------|----------|-----------------|
|        | A          | B    | Body       | Contact  |                 |
| 1      | .500       | .218 | Gold       | Gold (C) | 1328000G001-900 |
| 1      | .500       | .218 | Passivated | Gold (C) | 1328000K001-900 |
| 2      | .875       | .218 | Gold       | Gold (C) | 1327000G001-900 |
| 2      | .875       | .218 | Passivated | Gold (C) | 1327000K001-900 |
| 3      | .720       | —    | Gold       | Gold (C) | 1334000G001-900 |
| 3      | .720       | —    | Passivated | Gold (C) | 1334000K001-900 |

(C) indicates captive contact.

## Accessory Pins

These drawings are 200% scale compared with connector drawings for clarity.  
 Pins are available with other tab sizes and configurations to suit your specific requirement.



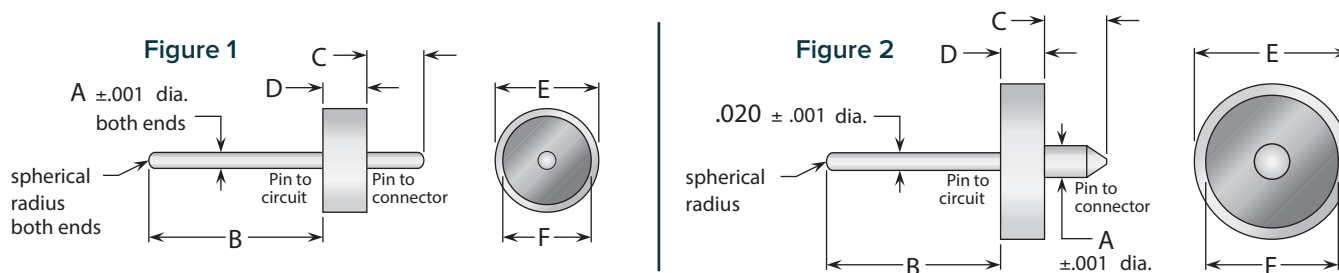
Material: Beryllium copper, Alloy C17300, condition H, per ASTM B196

Finish: Gold plated per MIL-G-45204 Type II, Class 1, Grade C, over nickel plate per AMS-QQ-N-290, Class 1, Grade G.

| Figure | Dimensions |      |      |      |      | Delta P/N      |
|--------|------------|------|------|------|------|----------------|
|        | A          | B    | C    | D    | E    |                |
| 1      | .012       | .050 | .025 | .005 | .012 | 33-10432-01-AU |
| 2      | .015       | .085 | .040 | .005 | .015 | 33-10416-01-AU |
| 2      | .020       | .090 | .100 | .005 | .020 | 33-10415-01-AU |
| 2      | .036       | .090 | .100 | .005 | .036 | 33-10418-01-AU |
| 3      | .036       | .090 | .100 | .005 | .020 | 33-10417-01-AU |

## Hermetic Seals

These drawings are 200% scale compared with connector drawings for clarity.  
 Hermetic seals are available with other pin lengths to suit your specific requirement.



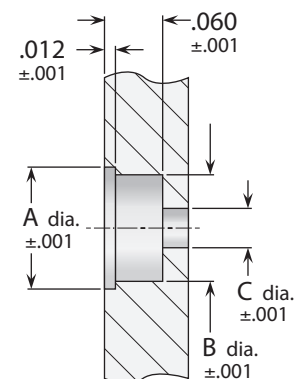
**Ring and pin material:** Kovar, gold plated per MIL-G-45204 Type II, Grade C, Class 1.

**Leak Rate:**  $>1 \times 10^{-8}$  cc/sec @ at 14.7 PSIG differential, using 100% helium. **Impedance:**  $50 \pm 2 \Omega$ .

| Figure | Dimensions |      |      |      |      |      | Glass Type | Frequency Range | Delta P/N      |
|--------|------------|------|------|------|------|------|------------|-----------------|----------------|
|        | A          | B    | C    | D    | E    | F    |            |                 |                |
| 1      | .012       | .180 | .072 | .063 | .099 | .078 | 7052       | DC-42.0 GHz     | 41-10038-01-AU |
| 1      | .015       | .180 | .080 | .063 | .099 | .083 | 7052       | DC-28.0 GHz     | 41-10039-01-AU |
| 1      | .018       | .180 | .080 | .063 | .112 | .099 | 7070       | DC-18.0 GHz     | 41-10040-01-AU |
| 1      | .020       | .180 | .080 | .063 | .158 | .129 | 7052       | DC-8.0 GHz      | 41-10041-01-AU |
| 2      | .036       | .180 | .080 | .063 | .158 | .129 | 7052       | DC-8.0 GHz      | 41-10042-01-AU |

## Drilling For Hermetic Seals - Panel Mount Receptacles

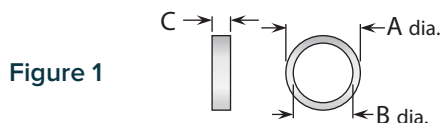
| Hermetic Seal P/N | Pin Dia. | Dimensions |      |         |         |
|-------------------|----------|------------|------|---------|---------|
|                   |          | A          | B    | C (Air) | C (TFE) |
| 41-10038-01-AU    | .012     | .127       | .102 | .028    | .040    |
| 41-10039-01-AU    | .015     | .127       | .102 | .035    | .050    |
| 41-10040-01-AU    | .018     | .140       | .115 | .041    | .059    |
| 41-10041-01-AU    | .020     | .188       | .163 | .046    | .066    |
| 41-10042-01-AU    | .036     | .188       | .163 | .046    | .066    |



Note 1: Surface treatment (plating) must be compatible with soldering process.

Note 2: Front of seal and solder bead should be flush to .005" above mounting surface.

## Replacement EMI Gasket



**Material:** Conductive elastomer per MIL-G-83528, Type F.

| Figure | Dimensions |      |      | Used With                                         | Delta P/N      |
|--------|------------|------|------|---------------------------------------------------|----------------|
|        | A          | B    | C    |                                                   |                |
| 1      | .162       | .127 | .040 | Connectors with narrow (.190" wide) 2-hole flange | 53-10025-03-NP |
| 1      | .172       | .140 | .040 | All other connectors                              | 53-10025-02-NP |

## General Description

These high-performance SMA connectors feature maximum VSWR of 1.10:1 from DC to 18 GHz, and 1.15:1 from 18 to 27.0 GHz. They are designed to provide enhanced durability and reliability in a “field grade” production connector. Their interface dimensions meet MIL-STD-348 requirements for compatibility with all standard SMA type connectors

The internal design is optimized using state-of-the-art Electromagnetic Finite Element Analysis model simulation to provide low reflection coefficient, with mode free operation to 27.0 GHz.

In addition, this connector series provides -100 dB RF leakage due to the precision finish on the interface and mounting surfaces to assure a solid 360-degree contact in the critical RF return path, and the absence of epoxy holes in the connector body. The design of the internal structure provides a reliable and symmetrical axial captivation by mechanical means with a minimal disturbance to the transmission line characteristics and has a maximum continuous service temperature of 165° C.

SMA 27.0 GHz field replaceable connectors are available in six common mounting flange configurations. Both the field replaceable and thread-in (spark plug) connectors are available for use with hermetic seals or accessory pins with diameters of .009, .012, .015, .018, .020, and .036 inches. The standard hermetic seals and accessory pins on page 24 can be modified to a wide range of configurations to match your application requirements.

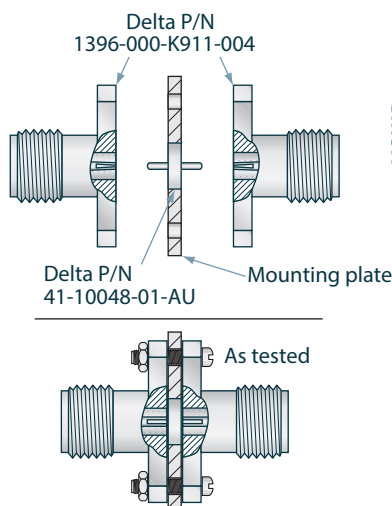
These connectors are machined to exacting tolerances and the highest quality standards on modern CNC turning centers, and assembly is tightly controlled and monitored to ensure peak consistency of performance from unit to unit.

## Contents

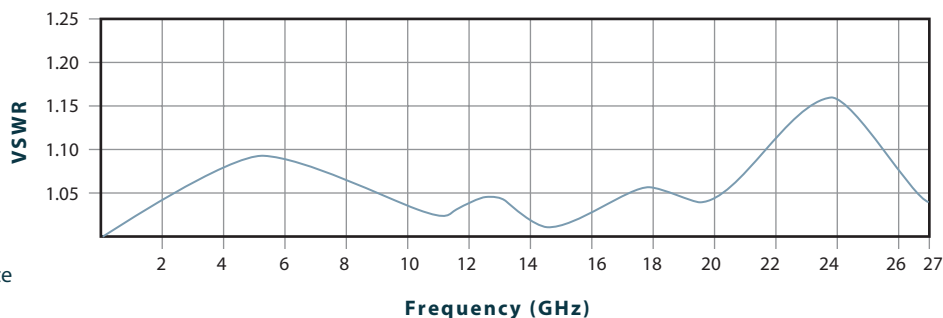
|                                               |    |                                         |    |
|-----------------------------------------------|----|-----------------------------------------|----|
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## Test Data

### Test Setup



### VSWR



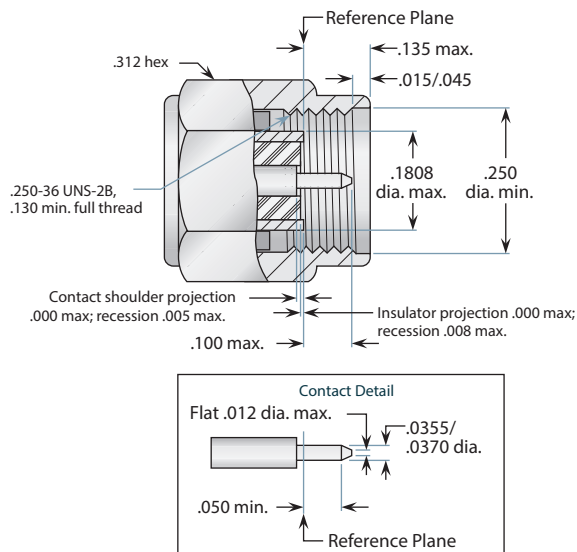
Two connectors tested, mounted back-to-back with a hermetic seal as shown at left. Maximum VSWR 1.16:1 @ 24 GHz (1.08:1 for each connector.)

These results are typical and valid only for connectors set up for testing in the configuration shown. Hermetic seal attachment method and other circuitry characteristics will affect VSWR of the completed component.

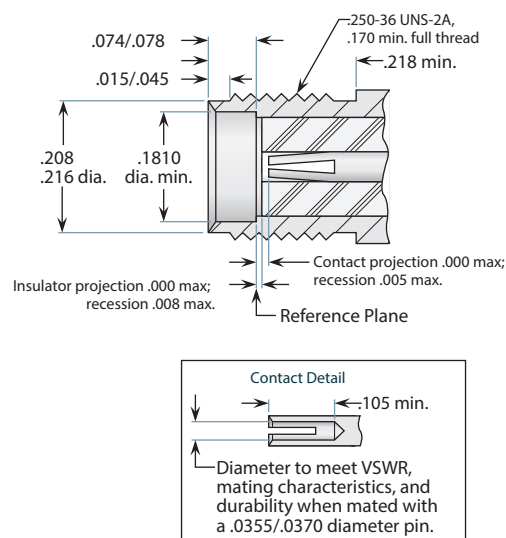
See next page for interface dimensions and specifications.

## SMA 27.0 GHz Interfaces

### Plug Interface\*\*



### Jack Interface\*\*



\*\* Per MIL-STD-348, figures 310-1 and 310-2. Some proportions altered to illustrate detail.

## SMA 27.0 GHz Specifications\*

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–27.0 GHz.

**Voltage Rating:** 335 Volts RMS (@ sea level).

**VSWR:** DC–18 GHz: 1.10:1 maximum;  
18–27.0 GHz: 1.15:1 maximum.

**RF Transmission Loss:**  $.03 \times \sqrt{f \text{ (GHz)}}$  dB.

**Dielectric Withstanding Voltage:** 1000 Volts RMS  
(@ sea level).

**RF Hipot:** 670 Volts RMS minimum @5 MHz.

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

**RF Leakage:** -100 dB minimum @3.0 GHz.

**Contact Resistance:** Center contact: 3.0 milliohms maximum;  
Outer contact: 2.0 milliohms maximum.

### Mechanical:

**Force to Engage:** 2 inch-pounds maximum.

**Coupling Nut Retention:** 60 pounds minimum (plugs only).

**Coupling Proof Torque:** 15 inch-pounds minimum (plugs only).

**Contact Insertion Force:** Insertion: 2 pounds maximum;  
withdrawal: 2 ounces minimum.

**Durability:** 500 mating cycles minimum.

**Mating Torque:** 7–10 inch-pounds.

### Materials/Finishes:

**Insulators:** Ultem® 1000 (PEI) per ASTM D5205, and  
Teflon® PTFE per ASTM D1710.

**Contacts:** Beryllium Copper (Alloy C17300) per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

**Other Metal Parts:** Type 303 Stainless steel per ASTM  
A582, passivated per AMS-QQ-P-35, or gold plated per  
MIL-G-45204.

**Gaskets (plugs):** Silicone rubber per A-A-59588.

All materials meet outgassing requirements of  
NASA Publication 1124.

### Environmental:

**Operating Temperature:** -65 to +165° C.

**Vibration:** Per MIL-STD-202, Method 204, test condition D.

**Shock:** Per MIL-STD-202, Method 213, test condition I.

**Thermal Shock:** Per MIL-STD-202, Method 107,  
test condition A.

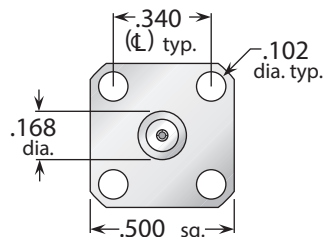
**Corrosion (Salt Atmosphere):** Per MIL-STD-202, Method  
101, test condition B.

**Moisture Resistance:** Per MIL-STD-202, Method 106,  
no measurements at high humidity. Insulation resistance 200  
megohms minimum within 5 minutes of removal  
from humidity.

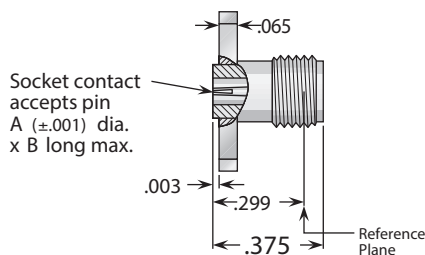
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-PRF-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

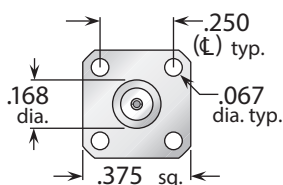
## Panel Jack Receptacles - Field Replaceable, Square and Rectangular Flange



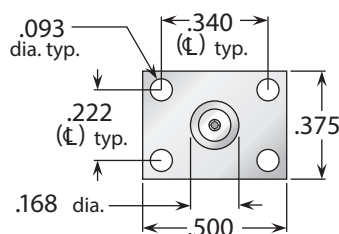
**Figure 1**  
(1/2" square flange)



**Connector Side View**



**Figure 2**  
(3/8" square flange)

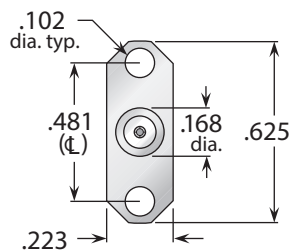


**Figure 3**  
(1/2" x 3/8" rectangular flange)

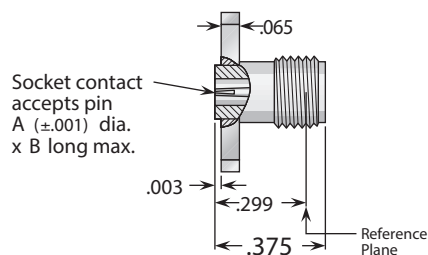
| Flange Figure | Dimensions       |                | Plating    |          | Delta P/N       |
|---------------|------------------|----------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Pin Length) | Body       | Contact  |                 |
| 1             | .009             | .070           | Passivated | Gold (C) | 1396000K051-024 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K051-006 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K051-007 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K051-008 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K051-009 |
|               | .036             | .100           | Passivated | Gold (C) | 1396000K051-010 |
| 2             | .009             | .070           | Passivated | Gold (C) | 1396000K911-075 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K911-001 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K911-002 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K911-003 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K911-004 |
|               | .036             | .100           | Passivated | Gold (C) | 1396000K911-005 |
| 3             | .009             | .070           | Passivated | Gold (C) | 1396000K911-076 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K911-006 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K911-007 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K911-008 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K911-009 |
|               | .036             | .100           | Passivated | Gold (C) | 1396000K911-010 |

See page 25 for hermetic seals and accessory pins. • (C) indicates captive contact.

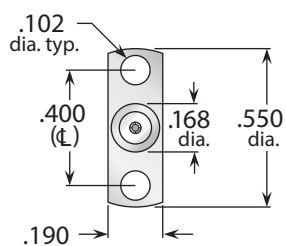
## Panel Jack Receptacles - Field Replaceable, 2-Hole Flange



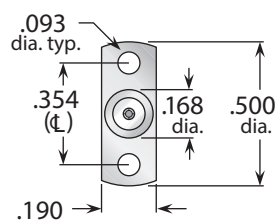
**Figure 1**  
(Standard 2-Hole Flange)



**Connector Side View**



**Figure 2**  
(Narrow 2-Hole Flange)

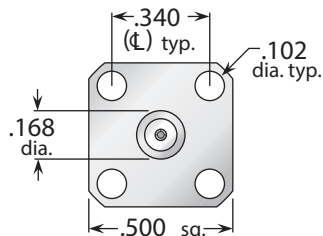


**Figure 3**  
(Miniature 2-Hole Flange)

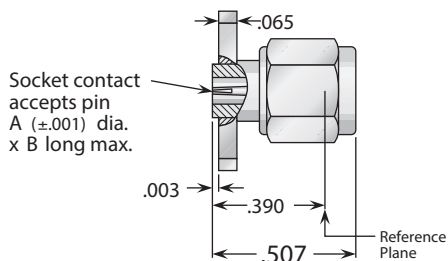
| Flange Figure | Dimensions       |                | Plating    |          | Delta P/N       |
|---------------|------------------|----------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Pin Length) | Body       | Contact  |                 |
| 1             | .009             | .070           | Passivated | Gold (C) | 1396000K921-031 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K921-011 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K921-012 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K921-013 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K921-014 |
|               | .036             | .100           | Passivated | Gold (C) | 1396000K921-015 |
| 2             | .009             | .070           | Passivated | Gold (C) | 1396000K911-073 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K911-051 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K911-052 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K911-053 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K911-054 |
| 3             | .009             | .070           | Passivated | Gold (C) | 1396000K911-074 |
|               | .012             | .090           | Passivated | Gold (C) | 1396000K911-055 |
|               | .015             | .090           | Passivated | Gold (C) | 1396000K911-056 |
|               | .018             | .095           | Passivated | Gold (C) | 1396000K911-057 |
|               | .020             | .095           | Passivated | Gold (C) | 1396000K911-058 |

See page 25 for hermetic seals and accessory pins. • (C) indicates captive contact.

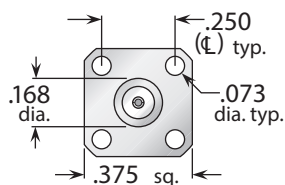
## Panel Plug Receptacles - Field Replaceable, Square and Rectangular Flange



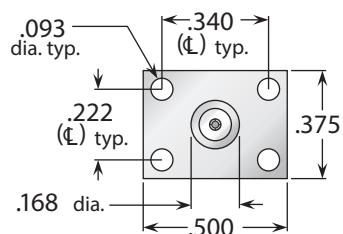
**Figure 1**  
(1/2" Square Flange)



**Connector Side View**



**Figure 2**  
(3/8" Square Flange)

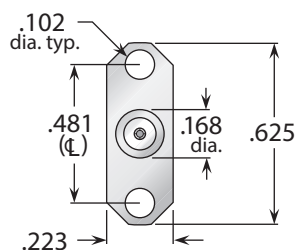


**Figure 3**  
(1/2" x 3/8" rectangular Flange)

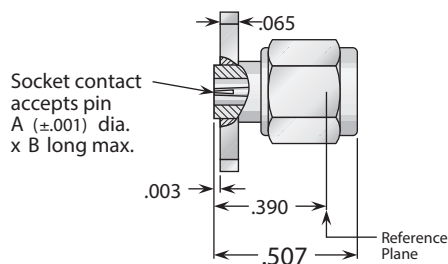
| Flange Figure | Dimensions       |                | Plating    |          | Delta P/N       |
|---------------|------------------|----------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Pin Length) | Body       | Contact  |                 |
| 1             | .009             | .070           | Passivated | Gold (C) | 1397000K051-024 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K051-006 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K051-007 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K051-008 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K051-009 |
|               | .036             | .100           | Passivated | Gold (C) | 1397000K051-010 |
| 2             | .009             | .070           | Passivated | Gold (C) | 1397000K911-065 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K911-001 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K911-002 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K911-003 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K911-004 |
|               | .036             | .100           | Passivated | Gold (C) | 1397000K911-005 |
| 3             | .009             | .070           | Passivated | Gold (C) | 1397000K911-066 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K911-006 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K911-007 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K911-008 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K911-009 |
|               | .036             | .100           | Passivated | Gold (C) | 1397000K911-010 |

See page 25 for hermetic seals and accessory pins. • (C) indicates captive contact.

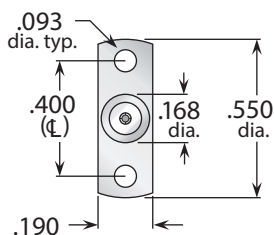
## Panel Plug Receptacles - Field Replaceable, 2-Hole Flange



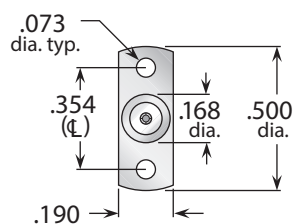
**Figure 1**  
(Standard 2-hole flange)



**Connector Side View**



**Figure 2**  
(Narrow 2-hole flange)

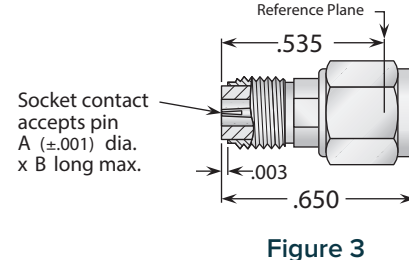
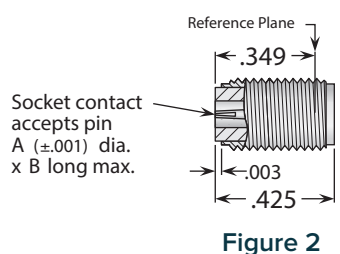
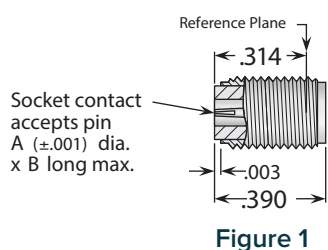
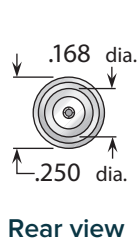


**Figure 3**  
(Miniature 2-hole flange)

| Flange Figure | Dimensions       |                | Plating    |          | Delta P/N       |
|---------------|------------------|----------------|------------|----------|-----------------|
|               | A (Pin Diameter) | B (Pin Length) | Body       | Contact  |                 |
| 1             | .009             | .070           | Passivated | Gold (C) | 1397000K921-030 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K921-011 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K921-012 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K921-013 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K921-014 |
|               | .036             | .100           | Passivated | Gold (C) | 1397000K921-015 |
| 2             | .009             | .070           | Passivated | Gold (C) | 1397000K911-063 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K911-038 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K911-039 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K911-040 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K911-041 |
| 3             | .009             | .070           | Passivated | Gold (C) | 1397000K911-064 |
|               | .012             | .090           | Passivated | Gold (C) | 1397000K911-042 |
|               | .015             | .090           | Passivated | Gold (C) | 1397000K911-043 |
|               | .018             | .095           | Passivated | Gold (C) | 1397000K911-044 |
|               | .020             | .095           | Passivated | Gold (C) | 1397000K911-045 |

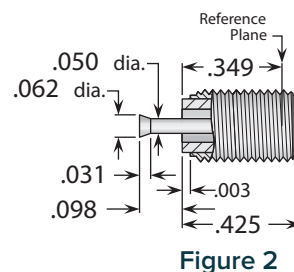
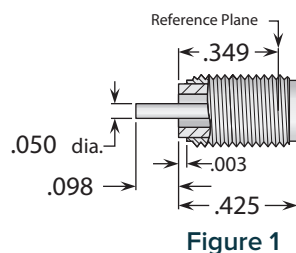
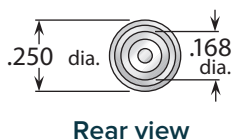
See page 25 for hermetic seals and accessory pins. • (C) indicates captive contact.

## Thread-in Receptacles - Field Replaceable, Jacks and Plugs



| Figure | Dimensions       |                | Plating    |          | Delta P/N       |
|--------|------------------|----------------|------------|----------|-----------------|
|        | A (Pin Diameter) | B (Pin Length) | Body       | Contact  |                 |
| 1      | .012             | .090           | Passivated | Gold (C) | 1396000K821-001 |
|        | .015             | .090           | Passivated | Gold (C) | 1396000K821-002 |
|        | .018             | .095           | Passivated | Gold (C) | 1396000K821-003 |
|        | .020             | .095           | Passivated | Gold (C) | 1396000K821-004 |
| 2      | .009             | .070           | Passivated | Gold (C) | 1396000K821-022 |
|        | .012             | .090           | Passivated | Gold (C) | 1396000K821-005 |
|        | .015             | .090           | Passivated | Gold (C) | 1396000K821-006 |
|        | .018             | .095           | Passivated | Gold (C) | 1396000K821-007 |
|        | .020             | .095           | Passivated | Gold (C) | 1396000K821-008 |
| 3      | .036             | .100           | Passivated | Gold (C) | 1396000K821-009 |
|        | .009             | .070           | Passivated | Gold (C) | 1397000K821-006 |
|        | .012             | .090           | Passivated | Gold (C) | 1397000K821-001 |
|        | .015             | .090           | Passivated | Gold (C) | 1397000K821-002 |
|        | .018             | .095           | Passivated | Gold (C) | 1397000K821-003 |
|        | .020             | .095           | Passivated | Gold (C) | 1397000K821-004 |
|        | .036             | .100           | Passivated | Gold (C) | 1397000K821-005 |

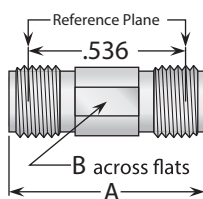
## Thread-in Jack Field Receptacles - Post Contact



| Figure | Contact Type | Plating    |          | Delta P/N       |
|--------|--------------|------------|----------|-----------------|
|        |              | Body       | Contact  |                 |
| 1      | Straight     | Passivated | Gold (C) | 1321000K821-129 |
| 2      | Flared       | Passivated | Gold (C) | 1321000K821-128 |

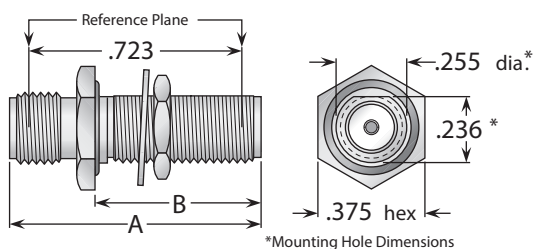
See page 25 for hermetic seals and accessory pins. • (C) indicates captive contact.

## Straight Adapters



**Figure 1**

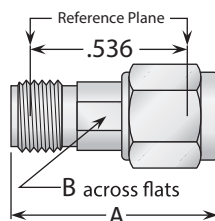
(Straight jack-jack; connects two plugs)



**Figure 2**

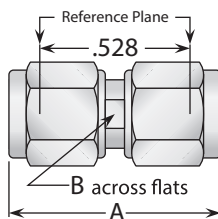
(Bulkhead jack-jack; connects two plugs)

Fits panel .250" thick maximum



**Figure 3**

(Straight jack-plug; connects one plug and one jack)



**Figure 4**

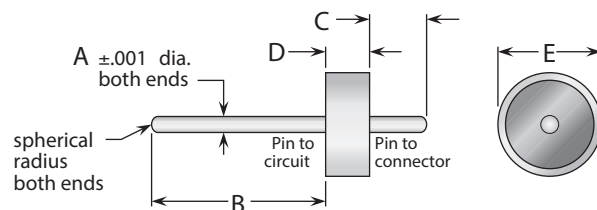
(Straight plug-plug; connects two jacks)

| Figure | Dimensions |      | Plating    |          | Delta P/N       |
|--------|------------|------|------------|----------|-----------------|
|        | A          | B    | Body       | Contact  |                 |
| 1      | .688       | .218 | Passivated | Gold (C) | 1328000K001-902 |
| 2      | .875       | .500 | Passivated | Gold (C) | 1326000K671-900 |
| 3      | .728       | .218 | Passivated | Gold (C) | 1334000K001-901 |
| 4      | .759       | .218 | Passivated | Gold (C) | 1327000K001-901 |

(C) indicates captive contact.

## Hermetic Seals

These drawings are 200% scale compared with connector drawings for clarity.  
 Hermetic seals are available with other pin lengths to suit your specific requirement.

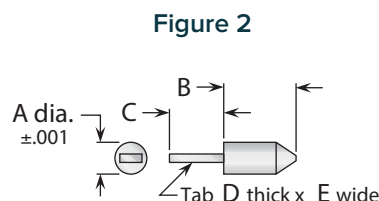
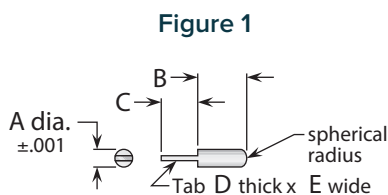


Ring and pin material: Kovar, gold plated per MIL-G-45204 Type II, Grade C, Class 1.  
 Leak rate:  $>1 \times 10^{-8}$  cc/sec @at 14.7 PSIG differential, using 100% helium. Impedance:  $50 \pm 2 \Omega$ .

| Dimensions |      |      |      |      | Glass Type | Frequency Range | Delta P/N      |
|------------|------|------|------|------|------------|-----------------|----------------|
| A          | B    | C    | D    | E    |            |                 |                |
| .009       | .026 | .031 | .055 | .068 | 7070       | DC–65.0 GHz     | 41-10050-01-AU |
| .009       | .120 | .031 | .055 | .068 | 7070       | DC–65.0 GHz     | 41-10051-01-AU |
| .012       | .180 | .073 | .069 | .076 | 7070       | DC–42.0 GHz     | 41-10044-01-AU |
| .012       | .080 | .040 | .055 | .076 | 7070       | DC–42.0 GHz     | 41-10045-01-AU |
| .012       | .029 | .040 | .055 | .076 | 7070       | DC–42.0 GHz     | 41-10049-01-AU |
| .015       | .125 | .050 | .062 | .098 | 7070       | DC–28.0 GHz     | 41-10046-01-AU |
| .018       | .180 | .072 | .060 | .110 | 7070       | DC–18.0 GHz     | 41-10047-01-AU |
| .020       | .125 | .050 | .060 | .158 | 7052       | DC–8.0 GHz      | 41-10048-01-AU |

## Accessory Pins

These drawings are 200% scale compared with connector drawings for clarity.  
 Pins are available with other tab sizes and configurations to suit your specific requirement.



Material: Beryllium copper, Alloy C17300, condition H, per ASTM B196  
 Finish: Gold plated per MIL-G-45204 Type II, Class 1, Grade C, over nickel plate per AMS-QQ-N-290, Class 1, Grade G.

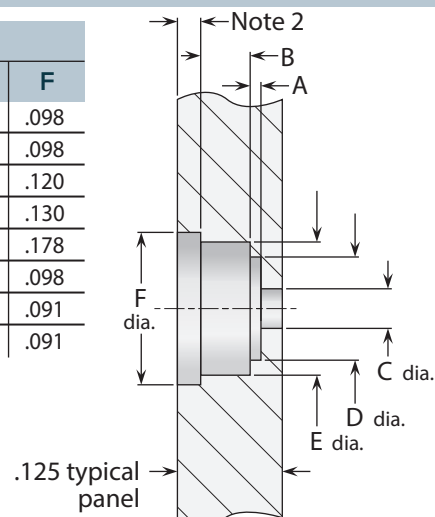
| Figure | Dimensions |      |      |      |      | Delta P/N      |
|--------|------------|------|------|------|------|----------------|
|        | A          | B    | C    | D    | E    |                |
| 1      | .009       | .050 | .015 | .005 | .009 | 81-10293-01-AU |
| 1      | .012       | .050 | .025 | .005 | .012 | 33-10432-01-AU |
| 1      | .015       | .085 | .040 | .005 | .015 | 33-10416-01-AU |
| 1      | .018       | .085 | .045 | .005 | .018 | 81-10294-01-AU |
| 1      | .020       | .080 | .050 | .006 | .020 | 81-10260-01-AU |
| 2      | .036       | .075 | .050 | .005 | .020 | 81-10275-01-AU |

## Drilling For Hermetic Seals - Panel Mount Receptacles

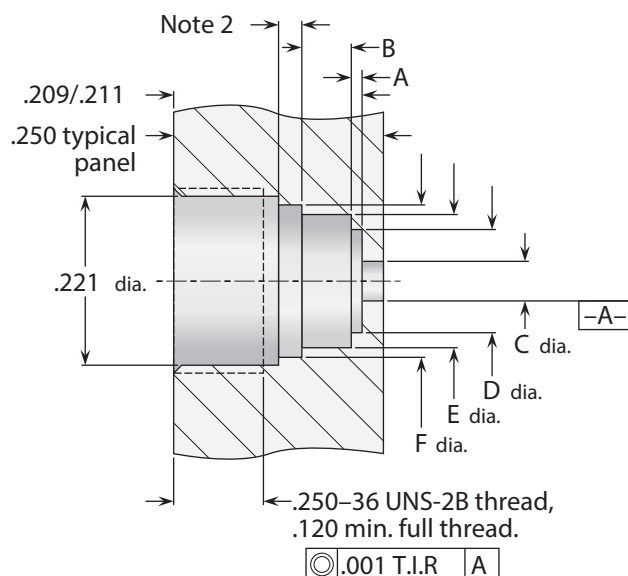
| Hermetic Seal P/N | Pin Dia. | Dimensions  |             |             |             |           |      |
|-------------------|----------|-------------|-------------|-------------|-------------|-----------|------|
|                   |          | A           | B           | C           | D           | E         | F    |
| 41-10044-01-AU    | .012     | .0035/.0025 | .072/.071   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10045-01-AU    | .012     | .0035/.0025 | .057/.056   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10046-01-AU    | .015     | .007/.005   | .0645/.0635 | .035/.034   | .080/.078   | .102/.100 | .120 |
| 41-10047-01-AU    | .018     | .009/.007   | .062/.061   | .042/.041   | .086/.084   | .113/.112 | .130 |
| 41-10048-01-AU    | .020     | .010/.009   | .062/.061   | .0465/.0455 | .126/.124   | .161/.160 | .178 |
| 41-10049-01-AU    | .012     | .0035/.0025 | .057/.056   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10050-01-AU    | .009     | .008/.006   | .058/.057   | .0211/.0205 | .0322/.0302 | .074/.072 | .091 |
| 41-10051-01-AU    | .009     | .008/.006   | .058/.057   | .0211/.0205 | .0322/.0302 | .074/.072 | .091 |

Note 1: Surface treatment (plating) must be compatible with soldering process.

Note 2: User-determined. Recommended F diameter x .025 deep to accommodate 3 solder rings, .010 diameter each.



## Drilling For Hermetic Seals - Bulkhead Mount Receptacles



| Hermetic Seal P/N | Pin Dia. | Dimensions  |             |             |             |           |      |
|-------------------|----------|-------------|-------------|-------------|-------------|-----------|------|
|                   |          | A           | B           | C           | D           | E         | F    |
| 41-10044-01-AU    | .012     | .0035/.0025 | .072/.071   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10045-01-AU    | .012     | .0035/.0025 | .057/.056   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10046-01-AU    | .015     | .007/.005   | .0645/.0635 | .035/.034   | .080/.078   | .102/.100 | .120 |
| 41-10047-01-AU    | .018     | .009/.007   | .062/.061   | .042/.041   | .086/.084   | .113/.112 | .130 |
| 41-10048-01-AU    | .020     | .010/.009   | .062/.061   | .0465/.0455 | .126/.124   | .161/.160 | .178 |
| 41-10049-01-AU    | .012     | .0035/.0025 | .057/.056   | .028/.027   | .067/.065   | .079/.078 | .098 |
| 41-10050-01-AU    | .009     | .008/.006   | .058/.057   | .0211/.0205 | .0322/.0302 | .074/.072 | .091 |
| 41-10051-01-AU    | .009     | .008/.006   | .058/.057   | .0211/.0205 | .0322/.0302 | .074/.072 | .091 |

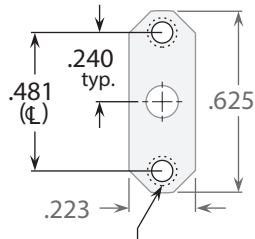
Note 1: Surface treatment (plating) must be compatible with soldering process.

Note 2: User-determined. Recommended F diameter x .025 deep to accommodate 3 solder rings, .010 diameter each.

## Drilling Patterns - Panel Mount Receptacles

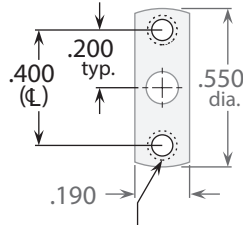
### 2-Hole Flanges

#### Standard 2-hole flange



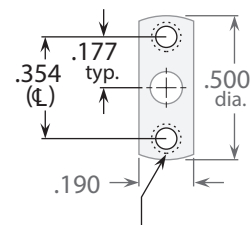
For jacks and plugs:  
#2-56 thread, 2 places.

#### Narrow 2-hole flange



For jacks:  
#2-56 thread, 2 places.  
For plugs:  
#1-72 thread, 2 places.

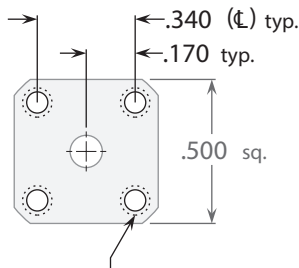
#### Miniature 2-hole flange



For jacks:  
#1-72 thread, 2 places.  
For plugs:  
#0-80 thread, 2 places,  
.125 max. screw length.

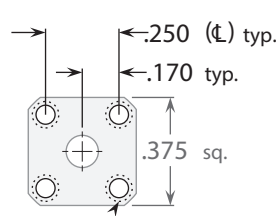
### 4-Hole Flanges

#### 1/2" Square flange



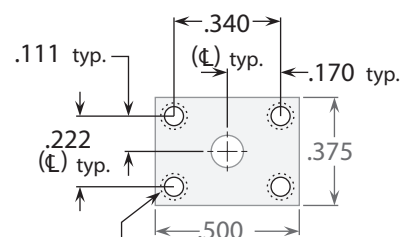
For jacks and plugs:  
#2-56 thread, 4 places.

#### 3/8" Square flange



For jacks:  
#0-80 thread, 4 places.  
For plugs:  
#0-80 thread, 4 places,  
.125 max. screw length.

#### 1/2 X 3/8" Rectangular flange



For jacks and plugs:  
#1-72 thread, 4 places.

Fillister-head screws are recommended for connector body clearance when mounting.  
See next page for center hole drilling dimensions.

## Competitive Cross Reference - 26.5-GHz SMA Connectors

Please note that these connectors are *functional equivalents* to the competitor part numbers shown. If you are using a competitor's connector in a critical application, please contact us for engineering assistance and samples to determine the compatibility of our connectors with your application.

| AEP P/N              | Delta P/N           | Dynawave P/N         | Delta P/N           |
|----------------------|---------------------|----------------------|---------------------|
| 920-55.....          | 41-10038-01-AU      | 9854-0781-6220 ..... | 1397000K051-018-EMI |
| 920-56.....          | 41-10040-01-AU      | 9854-0781-6220 ..... | 1397000K051-019-EMI |
| 920-69.....          | 41-10041-01-AU      | 9854-0781-6227 ..... | 1397000K911-027-EMI |
| 920-82.....          | 41-10039-01-AU      | 9854-0781-6227 ..... | 1397000K911-028-EMI |
| 920-92.....          | 41-10042-01-AU      | 9952-0081-6214 ..... | 1396000K911-034     |
| 9044-9513-000 .....  | 1396000K921-021-EMI | 9952-0081-6214 ..... | 1396000K911-035     |
| 9044-9513-001 .....  | 1396000K921-022-EMI | 9952-0081-6215 ..... | 1396000K921-021     |
| 9045-9513-000 .....  | 1396000K051-020-EMI | 9952-0081-6215 ..... | 1396000K921-022     |
| 9045-9513-001 .....  | 1396000K051-021-EMI | 9952-0081-6220 ..... | 1396000K921-023     |
| 9046-9513-000 .....  | 1397000K921-022-EMI | 9952-0081-6220 ..... | 1396000K921-024     |
| 9046-9513-001 .....  | 1397000K921-023-EMI | 9952-0081-6224 ..... | 1396000K911-036     |
| 9047-9513-000 .....  | 1397000K051-016-EMI | 9952-0081-6224 ..... | 1396000K911-037     |
| 9047-9513-001 .....  | 1397000K051-017-EMI | 9952-0781-6214 ..... | 1396000K911-034-EMI |
| 9048-9513-000 .....  | 1396000K921-023-EMI | 9952-0781-6214 ..... | 1396000K911-035-EMI |
| 9049-9513-000 .....  | 1396000K051-022-EMI | 9952-0781-6215 ..... | 1396000K921-021-EMI |
| 9050-9513-000 .....  | 1397000K921-024-EMI | 9952-0781-6215 ..... | 1396000K921-022-EMI |
| 9051-9513-000 .....  | 1397000K051-018     | 9952-0781-6220 ..... | 1396000K921-023-EMI |
| 9051-9513-000 .....  | 1397000K051-018-EMI | 9952-0781-6220 ..... | 1396000K921-024-EMI |
| 9062-9513-000 .....  | 1396000K911-047-EMI | 9952-0781-6224 ..... | 1396000K911-036-EMI |
| 9062-9513-001 .....  | 1396000K911-048-EMI | 9952-0781-6224 ..... | 1396000K911-037-EMI |
| 9068-9513-000 .....  | 1396000K911-049-EMI | 9954-0081-6215 ..... | 1396000K051-020     |
| 9074-9513-000 .....  | 1396000K911-040-EMI | 9954-0081-6215 ..... | 1396000K051-021     |
| 9079-9513-000 .....  | 1396000K911-038-EMI | 9954-0081-6217 ..... | 1396000K911-038     |
| 9079-9513-001 .....  | 1396000K911-039-EMI | 9954-0081-6217 ..... | 1396000K911-039     |
| 9080-9513-000 .....  | 1396000K911-034-EMI | 9954-0081-6219 ..... | 1396000K911-047     |
| 9080-9513-001 .....  | 1396000K911-035-EMI | 9954-0081-6219 ..... | 1396000K911-048     |
| 9081-9513-000 .....  | 1396000K911-036-EMI | 9954-0081-6220 ..... | 1396000K051-022     |
| 9504-9113-031 .....  | 1396000K051-023     | 9954-0081-6220 ..... | 1396000K051-023     |
| 9507-9113-003 .....  | 1396000K911-050     | 9954-0081-6227 ..... | 1396000K911-040     |
| 9508-9113-002 .....  | 1396000K921-024     | 9954-0081-6227 ..... | 1396000K911-041     |
| 9576-9113-001 .....  | 1396000K911-041     | 9954-0081-6229 ..... | 1396000K911-049     |
|                      |                     | 9954-0081-6229 ..... | 1396000K911-050     |
|                      |                     | 9954-0781-6215 ..... | 1396000K051-020-EMI |
|                      |                     | 9954-0781-6215 ..... | 1396000K051-021-EMI |
|                      |                     | 9954-0781-6217 ..... | 1396000K911-038-EMI |
|                      |                     | 9954-0781-6217 ..... | 1396000K911-039-EMI |
|                      |                     | 9954-0781-6219 ..... | 1396000K911-047-EMI |
|                      |                     | 9954-0781-6219 ..... | 1396000K911-048-EMI |
|                      |                     | 9954-0781-6220 ..... | 1396000K051-022-EMI |
|                      |                     | 9954-0781-6220 ..... | 1396000K051-023-EMI |
|                      |                     | 9954-0781-6227 ..... | 1396000K911-040-EMI |
|                      |                     | 9954-0781-6227 ..... | 1396000K911-041-EMI |
|                      |                     | 9954-0781-6229 ..... | 1396000K911-049-EMI |
|                      |                     | 9954-0781-6229 ..... | 1396000K911-050-EMI |
|                      |                     |                      |                     |
|                      |                     | <b>M/A-COM P/N</b>   | <b>Delta P/N</b>    |
|                      |                     | 2051-3350-02 .....   | 1397000K051-016-EMI |
|                      |                     | 2051-3352-02 .....   | 1397000K051-018-EMI |
|                      |                     | 2051-3354-02 .....   | 1397000K921-022-EMI |
|                      |                     | 2051-3356-02 .....   | 1397000K921-024-EMI |
|                      |                     | 2051-3362-02 .....   | 1397000K051-019     |
|                      |                     | 2051-3363-02 .....   | 1397000K921-025     |
|                      |                     | 2052-3350-02 .....   | 1396000K051-020-EMI |
|                      |                     | 2052-3352-02 .....   | 1396000K051-022-EMI |
|                      |                     | 2052-3354-02 .....   | 1396000K921-021-EMI |
|                      |                     | 2052-3356-02 .....   | 1396000K921-023-EMI |
|                      |                     | 2052-3362-02 .....   | 1396000K051-023     |
|                      |                     | 2052-3363-02 .....   | 1396000K921-024     |
|                      |                     | 2052-3375-02 .....   | 1396000K911-040-EMI |
|                      |                     | 2052-3393-02 .....   | 1396000K911-038-EMI |
|                      |                     |                      |                     |
| <b>Dynawave P/N</b>  | <b>Delta P/N</b>    |                      |                     |
| 9852-0081-6214 ..... | 1397000K911-016     |                      |                     |
| 9852-0081-6214 ..... | 1397000K911-017     |                      |                     |
| 9852-0081-6215 ..... | 1397000K921-022     |                      |                     |
| 9852-0081-6215 ..... | 1397000K921-023     |                      |                     |
| 9852-0081-6220 ..... | 1397000K921-024     |                      |                     |
| 9852-0081-6220 ..... | 1397000K921-025     |                      |                     |
| 9852-0081-6224 ..... | 1397000K911-018     |                      |                     |
| 9852-0081-6224 ..... | 1397000K911-019     |                      |                     |
| 9852-0781-6214 ..... | 1397000K911-016-EMI |                      |                     |
| 9852-0781-6214 ..... | 1397000K911-017-EMI |                      |                     |
| 9852-0781-6215 ..... | 1397000K921-022-EMI |                      |                     |
| 9852-0781-6215 ..... | 1397000K921-023-EMI |                      |                     |
| 9852-0781-6220 ..... | 1397000K921-024-EMI |                      |                     |
| 9852-0781-6220 ..... | 1397000K921-025-EMI |                      |                     |
| 9852-0781-6224 ..... | 1397000K911-018-EMI |                      |                     |
| 9852-0781-6224 ..... | 1397000K911-019-EMI |                      |                     |
| 9854-0081-6215 ..... | 1397000K051-016     |                      |                     |
| 9854-0081-6215 ..... | 1397000K051-017     |                      |                     |
| 9854-0081-6217 ..... | 1397000K911-025     |                      |                     |
| 9854-0081-6217 ..... | 1397000K911-026     |                      |                     |
| 9854-0081-6220 ..... | 1397000K051-018     |                      |                     |
| 9854-0081-6227 ..... | 1397000K911-027     |                      |                     |
| 9854-0081-6227 ..... | 1397000K911-028     |                      |                     |
| 9854-0781-6215 ..... | 1397000K051-016-EMI |                      |                     |
| 9854-0781-6215 ..... | 1397000K051-017-EMI |                      |                     |
| 9854-0781-6217 ..... | 1397000K911-025-EMI |                      |                     |
| 9854-0781-6217 ..... | 1397000K911-026-EMI |                      |                     |

## Competitive Cross Reference - 26.5-GHz SMA Connectors

| M/A-COM P/N        | Delta P/N           |
|--------------------|---------------------|
| 2052-3399-02 ..... | 1396000K911-034-EMI |
| 2052-3400-02 ..... | 1396000K911-036-EMI |
| 2052-3500-02 ..... | 1396000K051-021-EMI |
| 2052-3501-02 ..... | 1396000K911-039-EMI |
| 2052-3502-02 ..... | 1396000K921-022-EMI |
| 2052-3503-02 ..... | 1396000K911-035-EMI |
| 2098-3520-94 ..... | 41-10038-01-AU      |
| 2098-3251-94 ..... | 41-10040-01-AU      |
| 2098-3441-94 ..... | 41-10039-01-AU      |

| SV Microwave P/N  | Delta P/N           |
|-------------------|---------------------|
| SF2950-6780 ..... | 1396000K921-027-EMI |
| SF2950-6780 ..... | 1396000K921-028-EMI |
| SF2950-6786 ..... | 1396000K921-021     |
| SF2951-6122 ..... | 1396000K921-022     |
| SF2950-6784 ..... | 1396000K921-023     |
| SF2950-6784 ..... | 1396000K921-024     |
| SF2950-6720 ..... | 1396000K921-021-EMI |
| SF2951-6110 ..... | 1396000K921-022-EMI |
| SF2951-6121 ..... | 1396000K911-030     |
| SF2950-6920 ..... | 1396000K911-034     |
| SF2950-6955 ..... | 1396000K911-037     |
| SF2950-6619 ..... | 1396000K051-020     |
| SF2951-6125 ..... | 1396000K051-021     |
| SF2950-6662 ..... | 1396000K051-022     |
| SF2950-6662 ..... | 1396000K051-023     |
| SF2950-6769 ..... | 1396000K051-020-EMI |
| SF2951-6146 ..... | 1396000K051-021-EMI |
| SF2950-6789 ..... | 1396000K051-022-EMI |
| SF2950-6789 ..... | 1396000K051-023-EMI |
| SF2951-6114 ..... | 1396000K911-038     |
| SF2951-6124 ..... | 1396000K911-039     |
| SF2951-6115 ..... | 1396000K911-040     |
| SF2951-6106 ..... | 1396000K911-038-EMI |
| SF2951-6107 ..... | 1396000K911-040-EMI |
| SF2951-6107 ..... | 1396000K911-041-EMI |
| SF2951-6112 ..... | 1396000K911-039-EMI |
| SF2951-6115 ..... | 1396000K911-041     |
| SF2955-6177 ..... | 1397000K921-022-EMI |
| SF2955-6178 ..... | 1397000K051-018-EMI |
| SF2955-6178 ..... | 1397000K051-019-EMI |
| SF2955-6197 ..... | 1397000K921-024-EMI |
| SF2955-6197 ..... | 1397000K921-025-EMI |
| SF2955-6296 ..... | 1397000K051-016     |
| SF2955-6297 ..... | 1397000K051-018     |
| SF2955-6298 ..... | 1397000K921-022     |
| SF2955-6299 ..... | 1397000K921-024     |
| SF2955-6299 ..... | 1397000K921-025     |
| SF2955-6305 ..... | 1397000K921-023-EMI |
| SF2955-6306 ..... | 1397000K051-017-EMI |
| SF2955-6308 ..... | 1397000K051-016-EMI |
| SF2955-6320 ..... | 1397000K911-016     |
| SF2955-6321 ..... | 1397000K911-017     |
| SF2955-6322 ..... | 1397000K911-018     |
| SF2955-6322 ..... | 1397000K911-019     |
| SF2955-6323 ..... | 1397000K911-034-EMI |
| SF2955-6324 ..... | 1397000K911-035-EMI |
| SF2955-6325 ..... | 1397000K911-036-EMI |
| SF2955-6325 ..... | 1397000K911-037-EMI |
| SF2955-6326 ..... | 1397000K911-034     |
| SF2955-6327 ..... | 1397000K911-036     |
| SF2955-6327 ..... | 1397000K911-037     |
| SF2955-6333 ..... | 1397000K921-023     |
| SF2955-6334 ..... | 1397000K911-035     |
| SF2955-6335 ..... | 1397000K051-017     |
| SF2965-6297 ..... | 1397000K051-018     |

| Tensolite (CDI) P/N | Delta P/N           |
|---------------------|---------------------|
| 4004-5 .....        | 41-10038-01-AU      |
| 4004-9 .....        | 41-10039-01-AU      |
| 4004-11 .....       | 41-10040-01-AU      |
| 4004-13 .....       | 41-10041-01-AU      |
| 5601-1CCSF .....    | 1396000K911-033-EMI |
| 5601-2CCSF .....    | 1396000K911-032-EMI |
| 5601-4CCSF .....    | 1396000K911-029-EMI |
| 5601-5CCSF .....    | 1396000K911-030-EMI |
| 5601-6CCSF .....    | 1396000K911-031-EMI |
| 5602-2CCSF .....    | 1396000K921-024-EMI |
| 5602-4CCSF .....    | 1396000K921-021-EMI |
| 5602-5CCSF .....    | 1396000K921-022-EMI |
| 5602-6CCSF .....    | 1396000K921-023-EMI |
| 5603-2CCSF .....    | 1396000K911-041-EMI |
| 5603-4CCSF .....    | 1396000K911-038-EMI |
| 5603-5CCSF .....    | 1396000K911-039-EMI |
| 5603-6CCSF .....    | 1396000K911-040-EMI |
| 5604-2CCSF .....    | 1396000K051-023-EMI |
| 5604-4CCSF .....    | 1396000K051-020-EMI |
| 5604-5CCSF .....    | 1396000K051-021-EMI |
| 5604-6CCSF .....    | 1396000K051-022-EMI |
| 5605-2CCSF .....    | 1396000K911-050-EMI |
| 5605-4CCSF .....    | 1396000K911-047-EMI |
| 5605-5CCSF .....    | 1396000K911-048-EMI |
| 5605-6CCSF .....    | 1396000K911-049-EMI |
| 5606-2CCSF .....    | 1397000K921-025-EMI |
| 5606-4CCSF .....    | 1397000K921-022-EMI |
| 5606-5CCSF .....    | 1397000K921-023-EMI |
| 5606-6CCSF .....    | 1397000K921-024-EMI |
| 5607-2CCSF .....    | 1397000K911-028-EMI |
| 5607-4CCSF .....    | 1397000K911-025-EMI |
| 5607-5CCSF .....    | 1397000K911-026-EMI |
| 5607-6CCSF .....    | 1397000K911-027-EMI |
| 5608-2CCSF .....    | 1397000K051-019-EMI |
| 5608-4CCSF .....    | 1397000K051-016-EMI |
| 5608-5CCSF .....    | 1397000K051-017-EMI |
| 5608-6CCSF .....    | 1397000K051-018-EMI |
| 5609-2CCSF .....    | 1397000K911-037-EMI |
| 5609-4CCSF .....    | 1397000K911-034-EMI |
| 5609-5CCSF .....    | 1397000K911-035-EMI |
| 5609-6CCSF .....    | 1397000K911-036-EMI |
| 5633-1CCSF .....    | 1397000K911-015-EMI |
| 5633-2CCSF .....    | 1397000K911-014-EMI |
| 5633-4CCSF .....    | 1397000K911-011-EMI |
| 5633-5CCSF .....    | 1397000K911-012-EMI |
| 5633-6CCSF .....    | 1397000K911-013-EMI |
| 5634-2CCSF .....    | 1396000K911-037-EMI |
| 5634-4CCSF .....    | 1396000K911-034-EMI |
| 5634-5CCSF .....    | 1396000K911-035-EMI |
| 5634-6CCSF .....    | 1396000K911-036-EMI |
| 5635-2CCSF .....    | 1397000K911-019-EMI |
| 5635-4CCSF .....    | 1397000K911-016-EMI |
| 5635-5CCSF .....    | 1397000K911-017-EMI |
| 5635-6CCSF .....    | 1397000K911-018-EMI |
| 5663-2CCSF .....    | 1396000K921-024     |
| 5663-4CCSF .....    | 1396000K921-021     |
| 5663-5CCSF .....    | 1396000K921-022     |
| 5663-6CCSF .....    | 1396000K921-023     |
| 5664-2CCSF .....    | 1397000K921-025     |
| 5664-4CCSF .....    | 1397000K921-022     |
| 5664-5CCSF .....    | 1397000K921-023     |
| 5664-6CCSF .....    | 1397000K921-024     |
| 5665-2CCSF .....    | 1396000K051-023     |
| 5665-4CCSF .....    | 1396000K051-020     |
| 5665-5CCSF .....    | 1396000K051-021     |
| 5665-6CCSF .....    | 1396000K051-022     |

## Competitive Cross Reference - 26.5-GHz SMA Connectors

| Tensolite (CDI) P/N | Delta P/N           | Tensolite (CDI) P/N | Delta P/N           |
|---------------------|---------------------|---------------------|---------------------|
| 5666-2CCSF          | 1397000K051-019     | 5715-2CCSF          | 1396000K911-045-EMI |
| 5666-4CCSF          | 1397000K051-016     | 5715-4CCSF          | 1396000K911-042-EMI |
| 5666-5CCSF          | 1397000K051-017     | 5715-5CCSF          | 1396000K911-043-EMI |
| 5666-6CCSF          | 1397000K051-018     | 5715-6CCSF          | 1396000K911-044-EMI |
| 5668-2CCSF          | 1396000K911-050     | 5716-1CCSF          | 1397000K911-033-EMI |
| 5668-4CCSF          | 1396000K911-047     | 5716-2CCSF          | 1397000K911-032-EMI |
| 5668-5CCSF          | 1396000K911-048     | 5716-4CCSF          | 1397000K911-029-EMI |
| 5668-6CCSF          | 1396000K911-049     | 5716-5CCSF          | 1397000K911-030-EMI |
| 5669-2CCSF          | 1397000K911-037     | 5716-6CCSF          | 1397000K911-031-EMI |
| 5669-4CCSF          | 1397000K911-034     | 5717-1CCSF          | 1396000K911-046     |
| 5669-5CCSF          | 1397000K911-035     | 5717-2CCSF          | 1396000K911-045     |
| 5669-6CCSF          | 1397000K911-036     | 5717-4CCSF          | 1396000K911-042     |
| 5674-1CCSF          | 1396000K911-033     | 5717-5CCSF          | 1396000K911-043     |
| 5674-2CCSF          | 1396000K911-032     | 5717-6CCSF          | 1396000K911-044     |
| 5674-4CCSF          | 1396000K911-029     | 5718-1CCSF          | 1397000K911-033     |
| 5674-5CCSF          | 1396000K911-030     | 5718-2CCSF          | 1397000K911-032     |
| 5674-6CCSF          | 1396000K911-031     | 5718-4CCSF          | 1397000K911-029     |
| 5675-1CCSF          | 1397000K911-015     | 5718-5CCSF          | 1397000K911-030     |
| 5675-2CCSF          | 1397000K911-014     | 5718-6CCSF          | 1397000K911-031     |
| 5675-4CCSF          | 1397000K911-011     | 5780-1CCSF          | 1397000K051-015     |
| 5675-5CCSF          | 1397000K911-012     | 5780-2CCSF          | 1397000K051-014     |
| 5675-6CCSF          | 1397000K911-013     | 5780-4CCSF          | 1397000K051-011     |
| 5678-2CCSF          | 1396000K911-037     | 5780-5CCSF          | 1397000K051-012     |
| 5678-4CCSF          | 1396000K911-034     | 5780-6CCSF          | 1397000K051-013     |
| 5678-5CCSF          | 1396000K911-035     | 5923-1CCSF          | 1396000K911-027     |
| 5678-6CCSF          | 1396000K911-036     | 5923-2CCSF          | 1396000K911-026     |
| 5679-2CCSF          | 1397000K911-019     | 5923-4CCSF          | 1396000K911-023     |
| 5679-4CCSF          | 1397000K911-016     | 5923-5CCSF          | 1396000K911-024     |
| 5679-5CCSF          | 1397000K911-017     | 5923-6CCSF          | 1396000K911-025     |
| 5679-6CCSF          | 1397000K911-018     | 5925-1CCSF          | 1397000K911-024     |
| 5680-1CCSF          | 1396000K051-019     | 5925-2CCSF          | 1397000K911-023     |
| 5680-2CCSF          | 1396000K051-018     | 5925-4CCSF          | 1397000K911-020     |
| 5680-4CCSF          | 1396000K051-015     | 5925-5CCSF          | 1397000K911-021     |
| 5680-5CCSF          | 1396000K051-016     | 5925-6CCSF          | 1397000K911-022     |
| 5680-6CCSF          | 1396000K051-017     | 5935-1CCSF          | 1396000K911-027-EMI |
| 5681-1CCSF          | 1396000K921-029     | 5935-2CCSF          | 1396000K911-026-EMI |
| 5681-2CCSF          | 1396000K921-028     | 5935-4CCSF          | 1396000K911-023-EMI |
| 5681-4CCSF          | 1396000K921-025     | 5935-5CCSF          | 1396000K911-024-EMI |
| 5681-5CCSF          | 1396000K921-026     | 5935-6CCSF          | 1396000K911-025-EMI |
| 5681-6CCSF          | 1396000K921-027     | 5936-1CCSF          | 1397000K911-024-EMI |
| 5683-1CCSF          | 1397000K921-021     | 5936-2CCSF          | 1397000K911-023-EMI |
| 5683-2CCSF          | 1397000K921-020     | 5936-4CCSF          | 1397000K911-020-EMI |
| 5683-4CCSF          | 1397000K921-017     | 5936-5CCSF          | 1397000K911-021-EMI |
| 5683-5CCSF          | 1397000K921-018     | 5936-6CCSF          | 1397000K911-022-EMI |
| 5683-6CCSF          | 1397000K921-019     | 5941-2CCSF          | 1396000K911-041     |
| 5684-1CCSF          | 1396000K051-019-EMI | 5941-4CCSF          | 1396000K911-038     |
| 5684-2CCSF          | 1396000K051-018-EMI | 5941-5CCSF          | 1396000K911-039     |
| 5684-4CCSF          | 1396000K051-015-EMI | 5941-6CCSF          | 1396000K911-040     |
| 5684-5CCSF          | 1396000K051-016-EMI | 5942-2CCSF          | 1397000K911-028     |
| 5684-6CCSF          | 1396000K051-017-EMI | 5942-4CCSF          | 1397000K911-025     |
| 5685-1CCSF          | 1396000K921-029-EMI | 5942-5CCSF          | 1397000K911-026     |
| 5685-2CCSF          | 1396000K921-028-EMI | 5942-6CCSF          | 1397000K911-027     |
| 5685-4CCSF          | 1396000K921-025-EMI |                     |                     |
| 5685-5CCSF          | 1396000K921-026-EMI |                     |                     |
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| 5686-4CCSF          | 1397000K051-011-EMI |                     |                     |
| 5686-5CCSF          | 1397000K051-012-EMI |                     |                     |
| 5686-6CCSF          | 1397000K051-013-EMI |                     |                     |
| 5687-1CCSF          | 1397000K921-021-EMI |                     |                     |
| 5687-2CCSF          | 1397000K921-020-EMI |                     |                     |
| 5687-4CCSF          | 1397000K921-017-EMI |                     |                     |
| 5687-5CCSF          | 1397000K921-018-EMI |                     |                     |
| 5687-6CCSF          | 1397000K921-019-EMI |                     |                     |
| 5715-1CCSF          | 1396000K911-046-EMI |                     |                     |

## Competitive Cross-Reference—27.0 GHz SMA Connectors

Please note that these connectors are *functional equivalents* to the competitor part numbers shown. If you are using a competitor's connector in a critical application, please contact us for engineering assistance and samples to determine the compatibility of our connectors with your application.

| Southwest P/N | Delta P/N       | Southwest P/N | Delta P/N       |
|---------------|-----------------|---------------|-----------------|
| 211-500SF     | 1397000K051-006 | 214-517SF     | 1396000K911-053 |
| 211-501SF     | 1397000K051-007 | 214-518SF     | 1396000K911-057 |
| 211-502SF     | 1397000K051-009 | 214-520SF     | 1396000K911-055 |
| 211-503SF     | 1397000K051-010 | 214-521SF     | 1396000K911-056 |
| 211-504SF     | 1397000K051-008 | 214-522SF     | 1396000K911-058 |
| 211-505SF     | 1397000K911-003 | 214-537SF     | 1396000K921-031 |
| 211-510SF     | 1397000K911-001 | 214-538SF     | 1396000K911-073 |
| 211-511SF     | 1397000K911-002 | 214-539SF     | 1396000K911-074 |
| 211-512SF     | 1397000K911-004 | 220-500SF     | 1396000K821-005 |
| 211-513SF     | 1397000K911-005 | 220-501SF     | 1396000K821-006 |
| 211-514SF     | 1397000K911-006 | 220-502SF     | 1396000K821-008 |
| 211-515SF     | 1397000K911-007 | 220-503SF     | 1396000K821-009 |
| 211-516SF     | 1397000K911-008 | 220-506SF     | 1396000K821-007 |
| 211-517SF     | 1397000K911-009 | 220-507SF     | 1396000K821-022 |
| 211-518SF     | 1397000K911-010 | 221-500SF     | 1397000K821-001 |
| 211-523SF     | 1397000K911-065 | 221-501SF     | 1397000K821-002 |
| 211-524SF     | 1397000K051-024 | 221-502SF     | 1397000K821-004 |
| 211-525SF     | 1397000K911-066 | 221-503SF     | 1397000K821-005 |
| 212-500SF     | 1396000K051-006 | 221-504SF     | 1397000K821-003 |
| 212-501SF     | 1396000K051-007 | 221-505SF     | 1397000K821-006 |
| 212-502SF     | 1396000K051-009 | 230-506SF     | 1334000K001-901 |
| 212-503SF     | 1396000K051-010 | 231-502SF     | 1327000K001-901 |
| 212-505SF     | 1396000K911-006 | 232-502SF     | 1328000K001-902 |
| 212-506SF     | 1396000K051-008 | 232-510SF     | 1326000K671-900 |
| 212-507SF     | 1396000K911-003 | 290-00G       | 41-10046-01-AU  |
| 212-508SF     | 1396000K911-008 | 290-01G       | 41-10047-01-AU  |
| 212-510SF     | 1396000K911-001 | 290-02G       | 41-10048-01-AU  |
| 212-511SF     | 1396000K911-002 | 290-06G       | 41-10045-01-AU  |
| 212-512SF     | 1396000K911-004 | 290-07G       | 41-10049-01-AU  |
| 212-513SF     | 1396000K911-005 | 290-09G       | 33-10416-01-AU  |
| 212-530SF     | 1396000K911-010 | 290-10G       | 81-10260-01-AU  |
| 212-531SF     | 1396000K911-007 | 290-33G       | 81-10275-01-AU  |
| 212-532SF     | 1396000K911-075 | 1090-05G      | 33-10432-01-AU  |
| 212-536SF     | 1396000K911-009 | 1490-01G      | 81-10293-01-AU  |
| 212-550SF     | 1396000K051-024 |               |                 |
| 212-551SF     | 1396000K911-076 |               |                 |
| 213-500SF     | 1397000K921-011 |               |                 |
| 213-501SF     | 1397000K921-012 |               |                 |
| 213-502SF     | 1397000K921-014 |               |                 |
| 213-503SF     | 1397000K921-015 |               |                 |
| 213-504SF     | 1397000K921-013 |               |                 |
| 213-505SF     | 1397000K911-040 |               |                 |
| 213-510SF     | 1397000K911-038 |               |                 |
| 213-511SF     | 1397000K911-039 |               |                 |
| 213-512SF     | 1397000K911-041 |               |                 |
| 213-516SF     | 1397000K911-044 |               |                 |
| 213-517SF     | 1397000K921-030 |               |                 |
| 213-518SF     | 1397000K911-063 |               |                 |
| 213-519SF     | 1397000K911-064 |               |                 |
| 213-520SF     | 1397000K911-042 |               |                 |
| 213-521SF     | 1397000K911-043 |               |                 |
| 213-522SF     | 1397000K911-045 |               |                 |
| 214-500SF     | 1396000K921-011 |               |                 |
| 214-501SF     | 1396000K921-012 |               |                 |
| 214-502SF     | 1396000K921-014 |               |                 |
| 214-503SF     | 1396000K921-015 |               |                 |
| 214-510SF     | 1396000K911-051 |               |                 |
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| 214-512SF     | 1396000K911-054 |               |                 |
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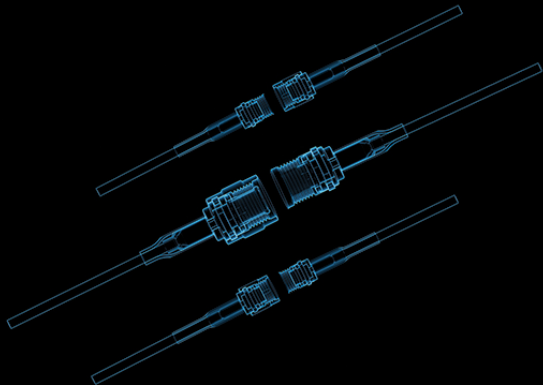
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