SMPM Micro-Miniature Push-on Coaxial Connectors

**Product Facts**
- Push-on style interconnect, allowing control of the mating forces when mating multiple connectors
- 30% smaller than SMP interconnects
- Complies with MIL-STD-348A

**Description**
A high performance micro-miniature, push-on coaxial interconnect system.
Extremely small size interconnection that offers a versatile solution for high density packaging, allowing center-to-center spacing of 0.135”.

**Applications**
Military and Aerospace applications for communications, radar systems, antennas.
Industrial applications that require a rugged, densely packaged RF interconnect system.

**Product Offering**
- Shrouds: flange mount, thread-in and press-in (full detent and smooth bore)
- Hermetic shrouds (single and dual positions)
- Edge mount PCB shrouds
- Thru-hole mount PCB shrouds
- Surface mount PCB shrouds (full detent, smooth bore and catcher’s mitt designs)
- Adapters, custom lengths and spring loaded options
- Straight and right-angle jacks for .047 cable

**Mechanical**
- Force to Engage — 4.5 lbs. typical full detent; 2.5 lbs. typical smooth bore
- Force to Disengage — 6.5 lbs. typical full detent; 1.5 lbs. typical smooth bore
- Radial Misalignment — ±0.10”
- Vibration — EIA-364-28, Test condition III
- Mechanical Shock — EIA-364-27, Method G
- Durability — EIA-364-9, 100 cycles min.

**Material and Finish**
- Housings and Center Contacts — Beryllium Copper per ASTM-B-196; gold plate over nickel plate
- Dielectric — PTFE Fluorocarbon per ASTM-D-1457
- Shrouds — Stainless steel per ASTM-A582 Type 303; passivate per ASTM-A380
- Hermetic Seal — Glass bead

**Electrical Performance**
- VSWR — 1.50:1 max to 40 GHz
- Impedance — 50 ohm
- Contact Resistance — Center - 6 milliohms max, Outer - 2 milliohms max.
- Insulation Resistance — 5000 megohms min.
- Dielectric Withstanding Voltage — 225 Volts min.
- Insertion Loss — 0.12 dB max. typical

**Standards and Specifications**
- MIL-STD-348A

**General Specifications**
- Temperature Range — -55 to +125 °C
- Voltage Rating — 150 volts AC

**Environmental Performance**
- Thermal Shock — EIA-364-32, 5 cycles
- Humidity-temperature — EIA-364-31 Method III, 10 cycles
- Salt Spray Corrosion — EIA-364-26, Condition B
- Temperature Life — EIA-364-17, Method A, test condition 5
PCB Surface Mount, Smooth Bore — Part No. 1757253-1 Smooth Bore 1757254-1 Full Detent

PCB Edge Mount — Part No. 1757640-1 Full Detent 1757640-2 Smooth Bore

PCB Surface Mount, Smooth Bore — Part No. 1757253-1 Smooth Bore 1757254-1 Full Detent

PCB Surface Mount, — Part No. 1757639-1 Full Detent Through-hole Legs

Hermetic, Smooth Bore, 2 Pos. Part No. 1663434-1

Hermetic Smooth Bore Part No. 1663433-1

Female Bullet Adapter — Part No. 1757256-1

Jack to Jack, Adapter, Spring Bullet — Part No. 1757257-1

Cable Jack, Straight — Part No. 1757642-1 — .047 dia. cable 1996328-1 — .086 dia. cable

Cable Jack, Right-Angle — Part No. 1757643-1 — .047 dia. cable

Cable Jack, Right-Angle — Part No. 1757638-1 — .047 dia. cable

Dimensions are shown for reference purposes only. Specifications subject to change.
Multi-position Backplane RF Modules

Description
Modular, high density, blind-mate RF backplane connection system combining a high performance, broad bandwidth multi-position RF interconnect in a customer configurable platform.

Applications
- Backplane/daughter card applications
- Electronic countermeasure systems
- Land & sea anti-ballistic signal processing
- UAV electronic sensing and processing
- Avionics & ground based radar systems
- Ground base stations & communication systems
- Central computing, satellite on-board & ship-board computing

Standards & Specs
Materials and plating meet the requirements of MIL-PRF-39012

SMPM RF contact interfaces IAW MIL-STD-348

Designed to meet the vibration, environmental and corrosion resistance requirements of ANSI/VITA 47
Designed and qualified IAW VITA 67.0; VITA 67.1 and VITA 67.2
Product Specification: 108-2443
IS Sheet: 408-10387
Test Report: 501-748

Materials
Center Contacts: Beryllium copper, gold plated
Connector Housings: Beryllium copper, gold plated
Module Body: Type 303 Corrosion resistant steel, with passivation treatment and aluminum alloy 6061-T6, with Trivalent chromate conversion coating
Springs: Nickel plated music wire or Type 316 corrosion resistant steel, with passivation treatment
Insulators: PTFE

Mechanical
Durability: EIA-364-9, 500 mating cycles (smooth bore)
Vibration: EIA-364-28, Test Condition III
Mechanical Shock: EIA-364-27, Method G
Operating Temperature: -55°C to +85°C
Humidity/Temperature Cycling: EIA-364-31, Method III

Physical or Other Properties
Misalignment: Axial float: .079 (2.0mm) min.
Radial Misalignment: +/- .010 min.
Force to Engage: 18.75 N (4.2 lbf) typical
Force to Disengage: 3.25 N (0.73 lbf) typical
Float Mount Preload: 0.52 N (2.3 lbf) lbs. typical
Float Mount Force at Full Deflection: 20.0 N (5.0 lbf) lbs. typical

Note: all values are typical for a single RF contact.
Push-On Coaxial Connectors

Multi-position Backplane RF Modules (Continued)

Electrical

**Impedance** — 50 ohm

**Frequency** — P.C.B. Mounted

Contacts - DC — 6.0 GHz

Semi-Rigid Cable Contacts - DC — 26.5 GHz

Flexible Cable Contacts - DC — 20 GHz

**VSWR** — 1.15:1 to 20 GHz; 1.25 max. to 26.5 GHz

**Insertion Loss** — .12 sqrt f (GHz) dB max.

**Insulation Resistance** — 5000 megohms min.

**DVW @ Sea Level** — 325 Vrms min.

**Contact Resistance** — Center 6 milliohms max., outer 2 milliohms max.

**Isolation (Channel to Channel)** —

SHF (3-30 GHz): >100 dB

VHF/UHF (30 MHz-3 GHz): >120 dB

HF (3-30 MHz): >140 dB

**RF Power @ 105 C (C.W. Ave.)** —

VHF/UHF/SHF (30 MHz-30 GHz): >20 dBm

HF (3-30 MHz): >30 dBm

**Note:** The maximum operating frequency is limited by the specifications of the selected cable.

Part Dimensions

Dimensions are in inches

4 Position

Part Number 1996883-4 — VITA 67.1 Daughter Card Module

Part Number 1996884-1 — VITA 67.1 Backplane Module

8 Position

Part Number 1996705-4 — VITA 67.2 Daughter Card Module

Part Number 1996706-1 — VITA 67.2 Backplane Module

SMPM Contacts for Daughtercard modules:

.047 semi-rigid cable: 1996771-1

.086 semi-rigid cable: 1996390-1

Consult TE for flexible cable/contact compatibility

**Note:** Other configurations and options are available, contact TE.
SMP Micro-Miniature Push-On Coaxial Connectors

Features
- Intermateable with Gilbert GPO™ Series
- Enhanced performance features
- Simplified Assembly
- DSCC Approved

SMP micro-miniature push-on coaxial connectors provide solutions for today’s modular designs with denser packaging requirements. The extremely small size of the SMP offers a versatile solution for high density packaging allowing connector center-to-center spacing of 0.17 [4.32]. The push-on interface facilitates easier assembly and test with a positive snap-in feature to indicate a fully mated connection. The rugged SMP interface can better withstand harsh environments of mechanical shock and vibration, typically found in military or aerospace related applications. This SMP connector interface is the standard used by Defense Electronics Supply Center (DSCC) to generate the SMP push-on connector series. For DSCC Part Numbers, see page 2-31. SMP connectors can be your design solution for mechanical packaging and frequency response. The SMP interface provides 0.010” of radial misalignment for critical blindmate applications. Mating forces are strictly controlled for reliable connections per mated pair or when simultaneously mating multiple connectors. Cable jacks include an anti-rocking ring for reliable mechanical performance for harsh operating environments. SMP connectors offer enhanced broadband VSWR performance of 1.15:1 max thru 26.5GHz and 1.70:1 max thru 40GHz.

Standard design SMP configurations include cable connectors, straight and right-angle, for 0.047 and 0.085 semi-rigid cable, full detent, limited detent and smooth bore mating shrouds that can be bulkhead or flange mounted and glass feedthroughs for coax to circuit launchers. In-series adapters for module-to-module intermixing and between series adapters for integrating or testing systems or components parameters.

SMP Shroud and Jack-to-Jack Adapter Assembly

Gilbert GPO Series — Trademark of Corning Incorporated
Push-On Coaxial Connectors

SMP Micro-Miniature Push-On Coaxial Connectors (Continued)

Specifications

General

Materials and Finishes
- Housings and Center Contacts: Beryllium Copper per ASTM-B-196; gold plate over nickel plate
- Dielectric: PTFE Fluorocarbon per ASTM-D-1457
- Shrouds: Stainless steel per ASTM-A582 Type 303; passivate per ASTM-A380
- Hermetic Seal: Glass bead

Electrical

- Frequency Range: dc - 40.0 GHz
- VSWR: 1.10:1 Maximum dc - 23.0 GHz; 1.15:1 Maximum 23.0 - 26.5 GHz; 1.70:1 Maximum 40.0 GHz
- Voltage Rating: 335 V rms maximum at sea level
- Insertion Loss: 0.10 √(GHz) dB
- Insulation Resistance: 5000 megohms minimum
- Dielectric Withstanding Voltage: 500 volts (VRMS minimum)
- RF High Potential: 325 volts (VRMS minimum) @ 5 MHz
- Impedance: 50 ohms nominal
- RF Leakage: -80 dB to 3 GHz, -65 dB from 3 to 26.5 GHz minimum
- Contact Resistance: Initial center contact 6.0 milliohm maximum; Outer contact 2.0 milliohm maximum

Mechanical

- Durability: 100 mating cycles minimum - (full detent)
- Radial Misalignment: ±0.010 minimum
- Axial Misalignment: .000/.010
- Force to Engage: full detent 15.0 lbs. maximum; limited detent 10.0 lbs. maximum; smooth bore 2.0 lbs. maximum
- Force to Disengage: full detent 5.0 lbs. minimum; limited detent 2.0 lbs. minimum; smooth bore 0.5 lbs. minimum
- Center Contact Retention: 1.5 lbs. minimum axial force

Environmental

- Operating Temperature: -85°F to +329°F [-65°C 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 B
- Moisture Resistance: megohms per MIL-STD-202, method 106, except step 7b shall be omitted. Resistance shall be 1000 within 5 minutes after removal from humidity.

Interface Dimensions

Jack

- Bullet Smooth Bore

Shroud

- Full Detent

- Smooth Bore

Note: These dimensions comply with MIL-STD-348.
SMP Micro-Miniature Push-On Coaxial Connectors (Continued)

### Straight Cable Jack, Solder Attachment

![Diagram of Straight Cable Jack, Solder Attachment]

### Right-Angle Cable Jack, Solder Attachment

![Diagram of Right-Angle Cable Jack, Solder Attachment]

### Jack to Jack Adapter (Bullet)

![Diagram of Jack to Jack Adapter (Bullet)]

### Jack to Jack Adapter (SMP)

![Diagram of Jack to Jack Adapter (SMP)]

### Shrouds

#### Shroud — Threaded

![Diagram of Shroud — Threaded]

#### Shroud — 2 Hole Flange Surface Mount

![Diagram of Shroud — 2 Hole Flange Surface Mount]

---

**Specifications subject to change.**

Catalog 1308940
Revised 9-14

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

---

**RF Connectors**

---

---

---
SMP Micro-Miniature Push-On Coaxial Connectors (Continued)

Shrouds (Continued)

Shroud — Press Fit

<table>
<thead>
<tr>
<th>Description</th>
<th>Dim. A</th>
<th>Dim. B</th>
<th>Reference Part No. (Ref. only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Detent</td>
<td>.182</td>
<td>.115</td>
<td>2998-5005-02</td>
<td>1056726-1</td>
</tr>
<tr>
<td>Limited Detent</td>
<td>.174</td>
<td>4.40</td>
<td>2998-5033-02</td>
<td>1056734-1</td>
</tr>
</tbody>
</table>

Shroud — Solder-In Hermetic

<table>
<thead>
<tr>
<th>Description</th>
<th>Dim. A</th>
<th>Dim. B</th>
<th>Reference Part No. (Ref. only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Detent</td>
<td>.145</td>
<td>.120</td>
<td>2998-5035-02</td>
<td>1056736-1</td>
</tr>
<tr>
<td>Limited Detent</td>
<td>.174</td>
<td>4.40</td>
<td>2998-5033-02</td>
<td>1056734-1</td>
</tr>
</tbody>
</table>

PCB Plug, Bulkhead Mount, Smooth Bore

<table>
<thead>
<tr>
<th>Description</th>
<th>Dim. A</th>
<th>Dim. B</th>
<th>Reference Part No. (Ref. only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Detent</td>
<td>.230</td>
<td>.080</td>
<td>2998-5054-94</td>
<td>1056750-1</td>
</tr>
<tr>
<td>Limited Detent</td>
<td>.230</td>
<td>.080</td>
<td>2998-5055-94</td>
<td>1056751-1</td>
</tr>
</tbody>
</table>

PCB Thru-Hole Mount, Smooth Bore

<table>
<thead>
<tr>
<th>Description</th>
<th>Dim. A</th>
<th>Dim. B</th>
<th>Reference Part No. (Ref. only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Detent</td>
<td>.230</td>
<td>.080</td>
<td>2998-5054-94</td>
<td>1056750-1</td>
</tr>
<tr>
<td>Limited Detent</td>
<td>.230</td>
<td>.080</td>
<td>2998-5055-94</td>
<td>1056751-1</td>
</tr>
</tbody>
</table>
SMP Micro-Miniature Push-On Coaxial Connectors (Continued)

Between Series Adapters

Between Series Coaxial Transmission Line Adapters provide convenient transitions between popular series coaxial connectors. The adapter design provides a minimum length consistent with good electrical performance. The small size, low VSWR, and broad frequency coverage permits a wide range of applications in both measurement and systems use.

**SMA Plug – SMP Plug**

Part Number 1056706-1
Reference Part No. (Ref. only)
2981-2241-00

---

**SMA Jack – SMP Jack**

Part Number 1056702-1
Reference Part No. (Ref. only)
2980-2240-00

---

**SMA Jack – OSMP Plug**

Part Number 1056707-1
Reference Part No. (Ref. only)
2982-2240-00

---

**SMP Jack – SMA Plug**

Part Number 1056708-1
Reference Part No. (Ref. only)
2982-2241-00

---

Miscellaneous

**Glass Bead Assembly**

<table>
<thead>
<tr>
<th>Reference Part No. (Ref. only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2998-5022-94</td>
<td>105672B-1</td>
</tr>
</tbody>
</table>

---

**Plug Assembly, Thread-In with Sliding Pin**

---

Catalog 1308940
Revised 9-14

www.te.com
**Features**

- Subminiature version of OSP (BMA) Blind Mate Connectors
- For space savings
- Family of connectors and adapters

**OSSP Subminiature Modular Blind Mate Connectors**

OSSP connectors are a subminiature version of the OSP (BMA) blind mate series. Connectors in this series incorporate the design elements of the OSP (BMA) interface including the float and mismate features. OSSP blind mates are about 40% smaller than OSP (BMA) connectors and are designed to be used in applications where space is at a premium.

A complete family of OSSP connectors and adapters is available including cable connectors, fixed and float mount panel connectors and hermetic connectors. Rigid mount units will function to specifications up to ±.064 [±.0025] radial misalignment with the mating plug connector. Applications requiring greater than ±.064 [±.0025] radial misalignment can use either the float design or floating connector plates with guide pins.

**Engineering Data**

- Impedance — 50 ohms
- Frequency — dc to 28.0 GHz
- Temperature Rating — -65° to 125° C
- Electrical
  - RG-405 (.085) Semi-Rigid
    - VSWR — 1.05 + .01f (GHz)
    - Insulation Resistance — 5,000 megohms min.
    - Contact Resistance —
      - Center Contact 6.0 milliohms max.
      - Outer Contact 3.0 milliohms max.
      - Outer Contact to Cable 0.5 milliohms max.
    - Dielectric Withstanding Voltage — 675 volts RMS
    - Corona Extinction Voltage at 70,000 Ft.— 250 volts min.
    - RF High Potential at 5 MHz — 675 volts RMS
    - RF Leakage Interface Only — (-90-1GHz dB min. (fully mated)
    - Power Handling —
      - Mechanical
        - Force to Engage — 3 pounds max.
        - Force to Disengage — 1.5 pounds max.
        - Center Contact Retention — 4 pounds min.
        - Durability — 1,000 Cycles
        - Radial Misalignment —
          - Rigid Mount ±.06 [±.0025]
          - Float Mount ±.51 [±.020]
    - Mating Characteristics
      - Jack Connector
        - Center Contact Socket
          - Oversize test Pin — .533 + .003 [.0210 + .0001] dia.
          - Test Pin Finish — 16 micro inch max.
          - Insertion Depth — .76/1.14 [.030/.045]
          - Number of Insertions — 3
          - Insertion Force Test Pin — .528 + .003 [.0208 + .0001] dia.
          - Test Pin Finish — 16 micro inch
          - Insertion Force — 3 pounds max.
          - Withdrawal Force Test Pin — .495 + .003 [.0195 - .0001] dia.
          - Test Pin Finish — 16 micro inch max.
          - Insertion Depth — 1.27/1.91 [.050/.075]
          - Withdrawal — 1/2 ounce min.
    - Finish
      - Center Contact — Gold plate per MIL-G-45204, Type II, Class 0 over nickel plate per QQ-N-290, Class 2 or passivate per ASTM-A380
      - Housing —
        - Gold plate per MIL-G-45204, Type II, Class 0 over nickel plate per QQ-N-290, Class 2 or passivate per ASTM-A380

**Material**

- Housing — Corrosion resistant steel Type 303 (stainless) per ASTM A484 and A582
- Center Contact — Beryllium copper per ASTM-B-196
- Dielectric — TFE fluorocarbon per ASTM-D-1457
- Gasket (O’Ring) — MIL-P-25732

**Environmental**

- Vibration — Method 204, Condition D, 20G’s, MIL-STD-202
- Shock — Method 213, Condition I, 100G’s, MIL-STD-202
- Temperature Cycling — Method 107, Condition B, MIL-STD-202
### Interface Mating Dimensions

The connector interface, specifically designed for multiple interconnects, maintains reliable performance over the typical mechanical tolerance required in cost effective packaging.

The interface test data shows excellent performance is maintained with mating gaps up to .015 inch.

![Diagram of OSSP Subminiature Modular Blind Mate Connectors](image)

#### Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack</td>
<td>1.22 Nom.</td>
<td>0.48 Nom.</td>
<td>3.91 Min.</td>
<td>5.33 Ref.</td>
<td>5.00 Nom.*</td>
<td>3.35 Max.*</td>
</tr>
<tr>
<td>Plug</td>
<td>1.22 Nom.</td>
<td>0.48 Nom.</td>
<td>3.56 Nom.</td>
<td>5.33 Ref.</td>
<td>5.00 Min.</td>
<td>0.51 Nom.</td>
</tr>
</tbody>
</table>

*With spring bottomed.
OSSP Subminiature Modular Blind Mate Connectors (Continued)

For Semi-Rigid Cable, 2.16 [.085] Dia., Direct Solder Attachment

Bulkhead Feedthrough Cable Plug — Rear Mount

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Reference Part No.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-405/U, 2.16 [.085]</td>
<td>Gold</td>
<td>4703-7985-00</td>
<td>1255511-1</td>
</tr>
</tbody>
</table>

Flange Mount Cable Jack — Floating Rear Mount

Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.

When using semi-rigid cable, it is recommended that a service loop be used to facilitate the float features of the connector.

Feedthru Snap-In

<table>
<thead>
<tr>
<th>Cable</th>
<th>Reference Part No.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-405/U, 2.16 [.085]</td>
<td>4710-7985-00</td>
<td>1059874-1</td>
</tr>
</tbody>
</table>
Push-On Coaxial Connectors

OSSP Subminiature Modular Blind Mate Connectors (Continued)

For Flexible Cable, Crimp Attachment

**Bulkhead Feedthrough**

**Cable Plug — Rear Mount**

![Diagram of Bulkhead Feedthrough Cable Plug — Rear Mount]

**Flange Mount**

**Cable Jack — Floating Rear Mount**

![Diagram of Flange Mount Cable Jack — Floating Rear Mount]

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-174/U, 188/U, 316U</td>
<td>Passivated Stainless Steel</td>
<td>4733-7388-02</td>
<td>1059886-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-188/U, 316 Double Braided Only</td>
<td>Passivated Stainless Steel</td>
<td>4736-7316-02</td>
<td>1059888-1</td>
</tr>
<tr>
<td>RG-174/U, 188/U, 316U</td>
<td>Passivated Stainless Steel</td>
<td>4736-5001-02</td>
<td>1059887-1</td>
</tr>
</tbody>
</table>

Catalog 1308940
Revised 9-14

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com
OSSP Subminiature Modular Blind Mate Connectors (Continued)

For Panel Mount

Straight Terminal

Threaded Installation — Panel Feedthrough Plug Receptacle

Feedthru Snap-In Cable Jack

PCB Vertical Plug

Press-In Plug

PCB Right Angle Bulkhead Plug
OSSP Subminiature Modular Blind Mate Connectors (Continued)

Hermetically Sealed

Metal to Metal
Formable Gasket —
Panel Feedthrough Plug
Receptacle

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.06 ± .01f</td>
<td>(5-GHz)</td>
<td>Gold</td>
<td>4757-5014-00</td>
<td>1059905-1</td>
</tr>
</tbody>
</table>

Recommended Mounting Hole Detail A at bottom of this page.

Solder and Braze-In
Panel Feedthrough Plug
Receptacle

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.06 ± .01f</td>
<td>(5-GHz)</td>
<td>Gold</td>
<td>4757-3204-00</td>
<td>1059902-1</td>
</tr>
</tbody>
</table>

Recommended Mounting Hole Detail B at bottom of this page.

Recommended Mounting Hole Detail for Hermetically Sealed

Detail A*

*Consult appropriate Instruction Sheet for complete mounting procedure.
OSP (BMA) Miniature Modular Blind Mate Connectors

Features

- Interface designed for multiple interconnects
- For high performance microwave system requirements
- Bulkhead or panel mount
- For semi-rigid cable

OSP (BMA) miniature connectors for semi-rigid cable meet high performance requirements for microwave multiple interconnects. Standard units are available in bulkhead or panel mount designs for either direct solder or OSCC solderless compression crimp attachment. Complete tooling for both versions is located in the Tool Section of this catalog.

Jack connectors are available in either float or rigid mount. Rigid mount units will function to specifications up to ±.10 [.004] radial misalignment with the mating plug connector. Applications requiring greater than ±.10 [.004] radial misalignment can use either the float design or floating connector plates with guide pins.

The OSCC Solderless Compression Crimp attachment meets high performance requirements for microwave system applications. The cable attachment is permanent and highly reliable.

Ease of assembly permits users unskilled in soldering techniques to rapidly produce cable assemblies with consistently excellent mechanical and electrical performance.

METRIC

Dimensions in this OSP (BMA) section are millimeters over inches. All other pages are inches over millimeters.
The specifications given refer specifically to mated pair of Part Numbers 1059410-1 and 1059402-1 (RG 402) and 1059412-1 and 1059404-1 (RG 405). Specifications on other connectors are available on request.

The general electrical, mechanical and environmental specifications in the following table are recommended for procurement documents or drawings.

### OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

<table>
<thead>
<tr>
<th>Engineering Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance —</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Frequency —</td>
<td>dc to 22.0 GHz</td>
</tr>
<tr>
<td>Temperature Rating —</td>
<td>-65° to 125° C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VSWR —</td>
<td>1.02 + .005(f GHz) 1.02 + .008(f GHz) 0.3 x √f (GHz) 0.3 x √f (GHz)</td>
</tr>
<tr>
<td>Frequency</td>
<td>18.0 - 22.0 GHz</td>
</tr>
<tr>
<td>Temperature Rating —</td>
<td>1000 volts RMS</td>
</tr>
<tr>
<td>Insulation Resistance —</td>
<td>5,000 megohms min.</td>
</tr>
<tr>
<td>Contact Resistance —</td>
<td>2.0 milliohm max. 2.0 milliohm max. 0.5 milliohm max.</td>
</tr>
<tr>
<td>Center Contact</td>
<td>2.0 milliohm max.</td>
</tr>
<tr>
<td>Outer Contact</td>
<td>2.0 milliohm max. 0.5 milliohm max.</td>
</tr>
<tr>
<td>Outer Contact to Cable</td>
<td>0.5 milliohm max.</td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage —</td>
<td>1500 volts RMS</td>
</tr>
<tr>
<td>Corona Extinction Voltage at 70,000 Ft.—</td>
<td>375 volts min. 1,000 volts RMS</td>
</tr>
<tr>
<td>RF High Potential at 5 MHz —</td>
<td>-(90-fGHz) dB min. (fully mated)</td>
</tr>
<tr>
<td>RF Leakage Interface Only —</td>
<td>-(90-fGHz) dB min. (fully mated)</td>
</tr>
<tr>
<td>Power Handling —</td>
<td>300W at 3 GHz (sea level) and room temperature</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration —</td>
<td>Method 204, Condition D, 20G's, MIL-STD-202</td>
</tr>
<tr>
<td>Shock —</td>
<td>Method 213, Condition I, 100G's, MIL-STD-202</td>
</tr>
<tr>
<td>Temperature Cycling —</td>
<td>Method 107, Condition B, MIL-STD-202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing —</td>
<td>Corrosion resistant steel Type 303 (stainless) per ASTM A484 and A582</td>
</tr>
<tr>
<td>Center Contact —</td>
<td>Beryllium copper per ASTM-B-196</td>
</tr>
<tr>
<td>Dielectric —</td>
<td>TFE fluorocarbon per ASTM-D-1457</td>
</tr>
<tr>
<td>Gasket (O’Ring) —</td>
<td>MIL-P-25732</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Force to Engage —</td>
<td>3 pounds max.</td>
</tr>
<tr>
<td>Force to Disengage —</td>
<td>1.5 pounds max.</td>
</tr>
<tr>
<td>Center Contact Retention —</td>
<td>6 pounds min.</td>
</tr>
<tr>
<td>Durability —</td>
<td>5,000 Cycles</td>
</tr>
<tr>
<td>Radial Misalignment —</td>
<td>±10 [±.004]</td>
</tr>
<tr>
<td>Rigid Mount</td>
<td>±.10 [±.004]</td>
</tr>
<tr>
<td>Float Mount</td>
<td>±.51 [±.020]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mating Characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack Connector —</td>
<td></td>
</tr>
<tr>
<td>Center Contact Socket —</td>
<td>Oversize test Pin —</td>
</tr>
<tr>
<td>Test Pin Finish —</td>
<td>16 micro inch</td>
</tr>
<tr>
<td>Insertion Depth —</td>
<td>.76/1.14 (.030/.045)</td>
</tr>
<tr>
<td>Number of Insertions —</td>
<td>3</td>
</tr>
<tr>
<td>Insertion Force —</td>
<td>Test Pin —</td>
</tr>
<tr>
<td>Test Pin Finish —</td>
<td>16 micro inch</td>
</tr>
<tr>
<td>Insertion Depth —</td>
<td>1.27/1.91 (.050/.075)</td>
</tr>
<tr>
<td>Insertion Force —</td>
<td>3 pounds max.</td>
</tr>
<tr>
<td>Withdrawal Force —</td>
<td>Test Pin —</td>
</tr>
<tr>
<td>Test Pin Finish —</td>
<td>16 micro inch</td>
</tr>
<tr>
<td>Insertion Depth —</td>
<td>1.27/1.91 (.050/.075)</td>
</tr>
<tr>
<td>Withdrawal —</td>
<td>1 ounce min.</td>
</tr>
</tbody>
</table>

### Finish

| Center Contact — | Gold plate per MIL-G-45204, Type II, Class 1 over copper plate per MIL-C-14550 |
| Housing — | Gold plate per MIL-G-45204, Type II, Class 0 over nickel plate per QQ-N-290, Class 2 or passivate per ASTM-A380 |

---

All dimensions shown are nominal. Contact the factory for specific tolerances.
**OSP (BMA) Miniature Modular Blind Mate Connectors** (Continued)

### Interface Mating Dimensions

The connector interface, specifically designed for multiple interconnects, maintains reliable performance over the typical mechanical tolerance required in cost effective packaging.

The interface test data shows excellent performance is maintained with mating gaps up to 0.38 mm (.015).

Meets MIL-STD-348 Figure 321. Intermateable to BMA Connectors.

![Interface Diagram](image)

### Dimensions

<table>
<thead>
<tr>
<th>Letter</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1.78 .070</td>
</tr>
<tr>
<td>B</td>
<td>5.72 .255</td>
</tr>
<tr>
<td>C</td>
<td>7.62 .300</td>
</tr>
<tr>
<td>D</td>
<td>5.00 .197</td>
</tr>
<tr>
<td>E</td>
<td>5.08 .200</td>
</tr>
<tr>
<td>F</td>
<td>3.23 .127</td>
</tr>
</tbody>
</table>

*With spring bottomed

<table>
<thead>
<tr>
<th>Letter</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1.76 .070</td>
</tr>
<tr>
<td>B</td>
<td>5.33 .210</td>
</tr>
<tr>
<td>C</td>
<td>7.82 .300</td>
</tr>
<tr>
<td>D</td>
<td>5.05 .199</td>
</tr>
<tr>
<td>E</td>
<td>0.91 .036</td>
</tr>
<tr>
<td>F</td>
<td>3.25 .128</td>
</tr>
</tbody>
</table>

*With spring bottomed

![VSWR Graph](image)

**VSWR**

- **Flush .015 Gap**

**FREQUENCY**

- 2.0 GHz
- 180 GHz
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

For Semi-Rigid Cable, 2.16 [.085] and 3.58 [.141] Dia., Direct Solder Attachment

**Bulkhead Feedthrough Cable Plug**

**Rear Mount**

**Dimensions**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.58/U</td>
<td>Gold</td>
<td>3.7</td>
</tr>
<tr>
<td>2.16/U</td>
<td>Gold</td>
<td>2.3</td>
</tr>
</tbody>
</table>

*Non-SCD.

**Bulkhead Feedthrough Cable Jack Rigid Rear Mount**

**Dimensions**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.58/U</td>
<td>Gold</td>
<td>3.7</td>
</tr>
<tr>
<td>2.16/U</td>
<td>Gold</td>
<td>2.3</td>
</tr>
</tbody>
</table>

**Flange Mount Cable Jack Floating Rear Mount**

**Dimensions**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.58/U</td>
<td>3.7</td>
</tr>
<tr>
<td>2.16/U</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.

When using semi-rigid cable, it is recommended that a service loop be used to facilitate the float features of the connector.
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

For Semi-Rigid Cable, 2.16 [.085] and 3.58 [.141] Dia., Direct Solder Attachment (Continued)

Low Profile – Bulkhead
Feedthrough Cable Jack – Floating Rear Mount

![Diagram of OSP (BMA) Miniature Modular Blind Mate Connectors: Bulkhead](image)

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Dimensions (A x B)</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-402/U</td>
<td>Gold</td>
<td>3.7 x 4.6</td>
<td>4522-7941-02</td>
<td>1059505-1</td>
</tr>
<tr>
<td>3.58</td>
<td>.141</td>
<td>.144 x .180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG-405/U</td>
<td>Gold</td>
<td>2.3 x 3.0</td>
<td>4522-7985-02</td>
<td>1059506-1</td>
</tr>
<tr>
<td>2.16</td>
<td>.085</td>
<td>.089 x .120</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When using semi-rigid cable, it is recommended that a service loop be used to facilitate the float features of the connector.

Low Profile – Panel
Feedthrough Cable Jack – Floating Rear Mount

![Diagram of OSP (BMA) Miniature Modular Blind Mate Connectors: Panel](image)

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Dimensions (A x B)</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-402/U</td>
<td>Gold</td>
<td>3.7 x 4.6</td>
<td>4510-7941-00</td>
<td>1059465-1</td>
</tr>
<tr>
<td>3.58</td>
<td>.141</td>
<td>.144 x .180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG-405/U</td>
<td>Gold</td>
<td>2.3 x 3.0</td>
<td>4510-7985-00</td>
<td>1059467-1</td>
</tr>
<tr>
<td>2.16</td>
<td>.085</td>
<td>.089 x .120</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended removal tool part number 1059774-1 is described in Tool Section.

When using semi-rigid cable, it is recommended that a service loop be used to facilitate the float features of the connector.

![Recommended Mounting Detail](image)
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

For Semi-Rigid Cable, 2.16 [.085] and 3.58 [.141] Dia.,
OSCC Solderless Compression Crimp Attachment

Bulkhead Feedthrough
Cable Plug
Fixed Rear Mount

![Bulkhead Feedthrough Cable Plug Fixed Rear Mount](image)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-405/U 2.16 .085</td>
<td>Passivated Stainless Steel</td>
<td>2.2 .088</td>
<td>19.8 .782</td>
<td>17.2 .677</td>
<td>4503-7685-02</td>
<td>1059399-1</td>
</tr>
</tbody>
</table>

Outline drawing shows after crimp dimensions.

Bulkhead Feedthrough
Cable Jack
Fixed Rear Mount

![Bulkhead Feedthrough Cable Jack Fixed Rear Mount](image)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-402/U 3.58 .141</td>
<td>Passivated Stainless Steel</td>
<td>3.6 .143</td>
<td>21.1 .830</td>
<td>18.2 .715</td>
<td>4504-7641-02</td>
<td>1059408-1</td>
</tr>
</tbody>
</table>

Outline drawing shows after crimp dimensions.

Flange Mount Cable Jack
Floating Rear Mount

![Flange Mount Cable Jack Floating Rear Mount](image)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-402/U 3.58 .141</td>
<td>Passivated Stainless Steel</td>
<td>3.6 .143</td>
<td>22.6 .891</td>
<td>19.8 .780</td>
<td>4506-7641-02</td>
<td>1059451-1</td>
</tr>
<tr>
<td>RG-405/U 2.16 .085</td>
<td>Passivated Stainless Steel</td>
<td>2.2 .088</td>
<td>22.6 .891</td>
<td>19.8 .780</td>
<td>4506-7685-02</td>
<td>1059452-1</td>
</tr>
</tbody>
</table>

Outline drawing shows after crimp dimensions.
When using semi-rigid cable, it is recommended that a service loop be used to facilitate the float features of the connector.
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

For Flexible Cable, Crimp Attachment

Bulkhead Feedthrough
Cable Plug
Rear Mount

Flange Mount Cable Jack
Floating Rear Mount

Low Profile – Panel
Feedthrough Cable Jack – Rear Mount

---

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-174/U, 179, 187, 188, 316</td>
<td>Passivated Stainless Steel</td>
<td>4533-7388-02</td>
<td>1059523-1</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Cable</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-55/U, 142, 223, 400</td>
<td>Passivated Stainless Steel</td>
<td>4536-7341-02</td>
<td>1059540-1</td>
</tr>
<tr>
<td>RG-174/U, 179, 187, 188, 316</td>
<td>Passivated Stainless Steel</td>
<td>4536-7388-02</td>
<td>1059541-1</td>
</tr>
<tr>
<td>RG-178, Double Braid</td>
<td>Passivated Stainless Steel</td>
<td>4536-5014-02</td>
<td>1058572-1</td>
</tr>
</tbody>
</table>

Refer to Recommended Mounting Hole Detail for Semi-Rigid Cable Low Profile Feedthrough Cable Jack. Recommended removal tool part number 1059774-1 is described in Tool Section.
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

Panel Mount

Straight Terminal

2-Hole Flange Mount Plug

Receptacle

2-Hole Flange Mount Jack

Receptacle

4-Hole Flange Mount Plug

Receptacle

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4551-1352-02</td>
<td>1049678-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4552-1352-02</td>
<td>105996-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4551-1201-02</td>
<td>1329846-1</td>
</tr>
</tbody>
</table>
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

Panel Mount (Continued)

Straight Terminal

Threaded Installation – Panel Feedthrough Plug Receptacle

Press Fit Installation – Panel Feedthrough Plug Receptacle

Press Fit Installation – Panel Feedthrough Jack Receptacle

Panel Feedthrough Jack Receptacle

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated Stainless Steel</td>
<td>4557-5009-02</td>
<td>1059617-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated Stainless Steel</td>
<td>4558-5009-02</td>
<td>1059657-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated Stainless Steel</td>
<td>4557-5368-02</td>
<td>1059651-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passivated Stainless Steel</td>
<td>4558-1154-02</td>
<td>1059654-1</td>
</tr>
</tbody>
</table>
Panel Mount (Continued)

OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

Straight Terminal
Printed Circuit Board

Straight Plug Receptacle – Captured Contact

Straight Jack Receptacle – Captured Contact

Right Angle Plug
Receptacle – Captured Contact

Plating   Reference Part No. (Ref. Only)   Part No.   Dim. L
Gold      4563-0000-00   1059684-1   12.7   .500
          —   1663572-1   21.9   .862

Plating   Reference Part No. (Ref. Only)   Part No.
Gold      4562-0000-00   1059681-1

Plating   Reference Part No. (Ref. Only)   Part No.
Gold      4565-0000-00   1059691-1

Catalog 1308940
Revised 9-14

Dimensions are shown for reference purposes only. Specifications subject to change.
www.te.com

Dimensions are in millimeters unless otherwise specified.
USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

Hermetically Sealed

Metal-To-Metal
Rigid Gasket Seal –
Panel Feedthrough Plug Receptacle

![Image](http://example.com/image1.png)

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04 + .009f –(90-f GHz)</td>
<td>Passivated stainless steel</td>
<td>4557-5119-02</td>
<td>1059632-1</td>
<td></td>
</tr>
</tbody>
</table>

Installation Thermal Limit: 250°C.
Recommended Mounting Hole Detail A follows, page 2-64.

Rigid Gasket Seal –
Panel Feedthrough Jack Receptacle

![Image](http://example.com/image2.png)

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04 + .009f –(90-f GHz)</td>
<td>Passivated stainless steel</td>
<td>4558-5119-02</td>
<td>1059666-1</td>
<td></td>
</tr>
</tbody>
</table>

Installation Thermal Limit: 250°C.
Recommended Mounting Hole Detail A follows, page 2-64.

Field Replaceable
Solder and Braze-In
Panel Feedthrough Plug Receptacle

![Image](http://example.com/image3.png)

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.06 + .011f –(90-f GHz)</td>
<td>Passivated stainless steel</td>
<td>4557-5329-02</td>
<td>1059637-1</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Mounting Detail B or E follows, page 2-64.
OSP (BMA) Miniature Modular Blind Mate Connectors (Continued)

Hermetically Sealed
(Continued)

2-Hole Flange Mount Plug
Receptacle With EMI/RFI
Gasket – 0.5 [.018] Dia.
Contact

<table>
<thead>
<tr>
<th>VSWR (GHz)</th>
<th>RF Leakage (dB)</th>
<th>Plating</th>
<th>Reference Part No. (Ref. Only)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.06 + .01f –(90-5GHz)</td>
<td>Passivated stainless steel</td>
<td>4551-3357-02</td>
<td>1059572-1</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Mounting Detail D follows at bottom of this page.

Recommended Mounting Hole Detail

**Detail A**

**Detail B** *(6.35 [.250] Panel Thickness)*

**Detail C**

**Detail D**

**Detail E**

*Consult appropriate Instruction Sheet for complete mounting details.*