

SV MICROWAVE®

Blindmate Connectors & Components



BLINDMATE CONNECTORS AND COMPONENTS

SV Microwave, Inc. is a world leader in the RF/microwave industry. We design and manufacture coaxial connectors, cable assemblies, attenuators, terminations, and custom signal processing components. We control virtually all of our processes with in-house machining, fabrication, assembly and testing.

SV Microwave is committed to helping customers meet their RF and microwave performance goals. We have invested in a talented engineering staff supported by state-of-the-art design, high-frequency software for 3-dimensional RF simulations and network measurement test equipment, and can provide detailed design assistance for unique applications from DC through millimeter wave frequencies.

SV Microwave supplies products that are electrically and mechanically optimized. We meet cost requirements either by customizing connectors and components for new applications, by supplying products discontinued by other manufacturers or by manufacturing high-volume components.

SV Microwave is a global leader in the development and application of Blindmate connector technology and has been spearheading the use of these connectors in advanced packaging concepts for the defense and telecommunication industries. We are the only manufacturer to obtain DSCC M31031 QPL status.

Selection Guide

| Specification | Blindmate Interface | | | |
|---------------------------------------|-------------------------|-------------------------|----------------------------|---|
| | BMA | BMMA | BMZ | BZ |
| Frequency | DC - 22 GHz* | DC - 28 GHz | DC - 18 GHz | DC - 2 GHz** |
| VSWR (f = Frequency GHz) | 1.02 + .008f | 1.05 + .01f | 1.05 + .01f | 1.02 + .05f |
| Insertion Loss (f = GHz) | .03(f) ^{1/2} | .04(f) ^{1/2} | .06(f) ^{1/2} | .15(f) ^{1/2} |
| RF Leakage Min. | -(90-fGHz) dB | -(90-fGHz) dB | -(80-fGHz) dB | -(80-fGHz) dB |
| RF High Potential @ 5 MHz | 1,000 VRMS | 675 VRMS | 500 VRMS | 1,500 VRMS |
| Radial Float inches (mm) | .020 (.51) | .020 (.51) | .020 (.51) | .020 (.51) |
| Axial Float inches (mm) | .060 (1.5) | .060 (1.5) | .060 (1.5) | .150 (3.8) |
| Connector Durability | 5,000 Cycles | 1,000 Cycles | 500 Cycles | 500 Cycles |
| Spring Load: Preload – Minimum Travel | .010 inch (.25 mm) | .010 inch (.25 mm) | .004 inch (.10 mm) | .010 inch (.25 mm) |
| Preload Force | 3.7 lbs. (1.68 kg) | 3.7 lbs. (1.68 kg) | 1.28 lbs. min. (.5 kg min) | 3 lbs. (1.36 kg) |
| Max. Travel Force | 4.5 lbs. (2.04 kg) | 4.5 lbs. (2.04 kg) | 2.8 lbs. (1.27 kg) | .150 in. travel/ 5 lbs. (3.81 mm travel/ 2.27 kg)) |
| Force to Engage | 48 oz. Max. (1361 g) | 48 oz. Max. (1361 g) | 12 oz. Max. (340 g) | 32 oz. Max. (907 g) |
| Force to Disengage | 1.5 lbs. Max. (.675 kg) | 1.5 lbs. Max. (.675 kg) | 2 oz. Min. (57 g) | 2 oz. Min. (57 g) |

* 26.5 GHz available for semi-rigid cable and receptacles.

** 12.4 and 18 GHz units available.

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2400 Centrepark West Drive, Suite 100, West Palm Beach, Florida 33409 U.S.A.

Phone: 561-840-1800 • FAX: 561-842-6277

BLINDMATE CONNECTORS AND COMPONENTS

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BLINDMATE CONNECTOR SYSTEM

Applied Technology

Blindmate connectors are often the solution when mating modular components in rack-and-panel, module-to-module or module-to-motherboard applications. Identifying the appropriate connector for the job is as crucial as pinpointing mounting features such as:

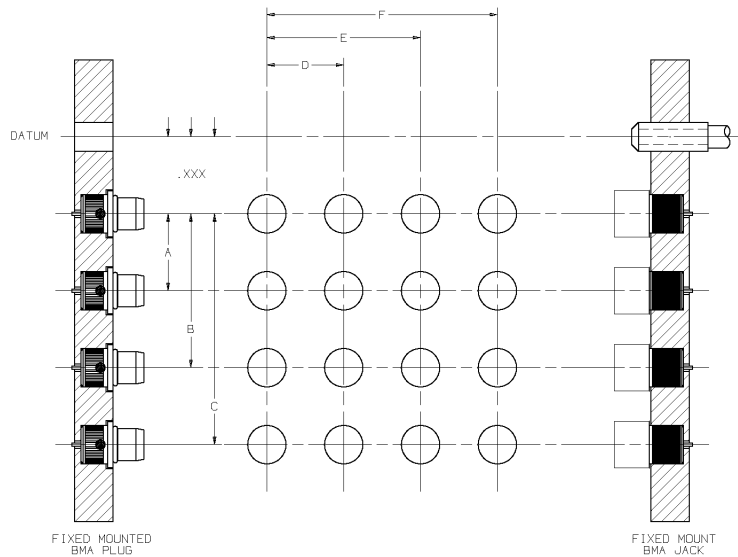
- Fixed and float tolerances, connector-to-connector
- Float mount spring loading and mating forces
- Density of connectors in multi-connector arrays
- Panel deflection

Blindmate connectors are ideally suited for OEMs who need modularity to integrate subsystems and components such as power amplifiers, transceivers and combiners into common racks in wireless/broadcast and communications systems. Blindmate connectors are also commonly found in satellites, radar and sensor equipment, avionics, missile systems, military electronics, electronic countermeasure systems, navigation and air traffic control, as well as automated test equipment.

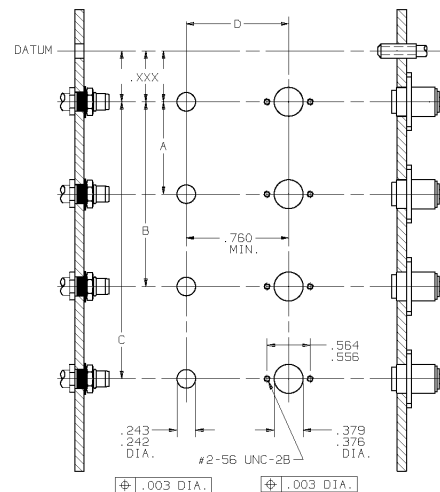
To adapt to this wide assortment of applications, SV Microwave blindmate connectors are configured in various ways:

- Fixed, floating, high-power and hermetic versions
- Flexible and semi-rigid cable connectors
- Low-profile styles
- Stripline and microstrip launchers
- Hermetic launchers
- Between-series adapters
- Terminations

Our blindmates also offer efficiencies in the areas of higher package densities, effective real estate and lower applied cost. They connect and disconnect quickly and offer slide-on mating without sacrificing superior microwave performance. Our unique spring-loading mechanism allows for both axial and radial misalignment.



Fixed-Mount Blindmate



Float-Mount Blindmate

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BLINDMATE CONNECTOR SYSTEM

Module-Module and Module-Motherboard Misalignment Tolerances: Fixed Mount

When using fixed mount blindmate connectors, axial and radial float tolerances of the interface accommodate misalignment.

Fixed mount blindmate connectors also tolerate a certain degree of radial misalignment without electrical or mechanical performance degradation.

Axial Misalignment

| Interface | Maximum Separation | Design Limit |
|-----------|--------------------|-------------------|
| BMA | .030 in. (.76 mm) | .015 in. (.38 mm) |
| BMMA | .020 in. (.51 mm) | .010 in. (.25 mm) |
| BMZ | .020 in. (.51 mm) | .010 in. (.25 mm) |
| BZ | .030 in. (.76 mm) | .015 in. (.38 mm) |

Radial Misalignment

| Interface | True Position Mounting Hole Centerline Tolerance | Total Connector Misalignment* |
|-----------|--|-------------------------------|
| BMA | .003 in. (.08 mm) | .008 in. (.20 mm) |
| BMMA | .002 in. (.05 mm) | .004 in. (.10 mm) |
| BMZ | .002 in. (.05 mm) | .004 in. (.10 mm) |
| BZ | .003 in. (.08 mm) | .008 in. (.20 mm) |

*per mated pair, any direction

Rack-and-Panel and Module-Motherboard Misalignment Tolerances: Float Mount

Blindmate float mount jack connectors are ideal for applications, such as multiple mate rack-and-panel, requiring higher axial and radial misalignment tolerances. The external float device provides connection protection beyond the normal blindmate interface misalignment tolerance

Axial Misalignment

Assuming a 0.010-inch min. preload, the float mount design accommodates up to a .050-inch longitudinal misalignment (mounting surface to mounting surface). If semi-rigid cable is needed, a service loop should be used to fully enable the connector's float features.

Radial Misalignment

Our floating connectors accommodate $\pm .020$ radial misalignment with a mounting hole centerline dimensioned from a predesignated datum of $\text{Ⓢ} \text{.006 Dia.}$. The radial tolerance accommodates mating package misalignment and mounting hole tolerance.

Recommended Preload

| Interface | Recommend Preload |
|-----------|-------------------|
| BMA | .010 in (.25 mm) |
| BMMA | .010 in (.25 mm) |
| BMZ | .004 in (.10 mm) |
| BZ | .010 in (.25 mm) |

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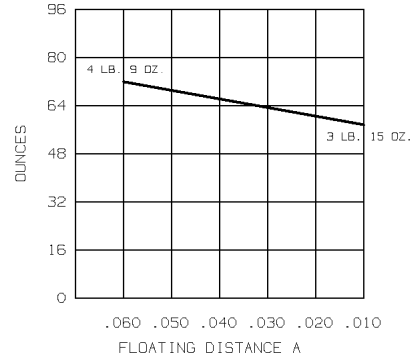
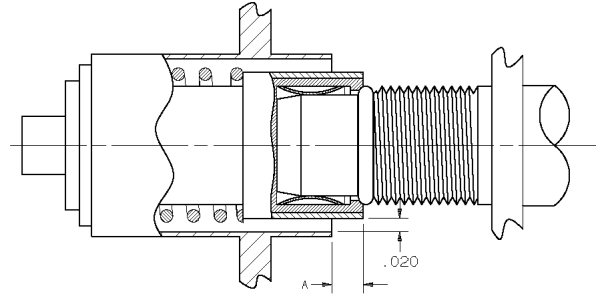
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BLINDMATE CONNECTOR SYSTEM

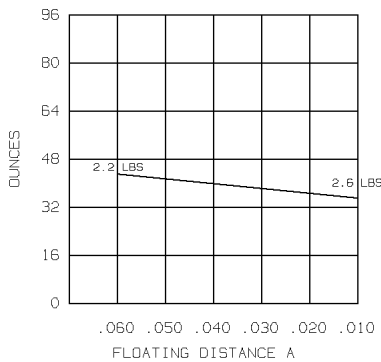
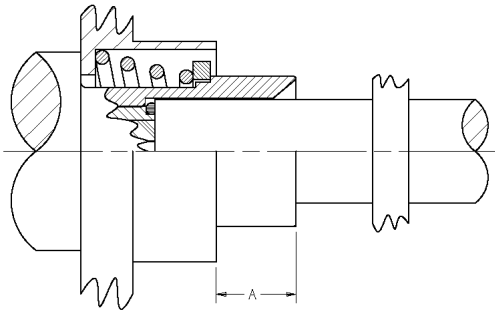
Spring Load Forces

A spring mechanism separates the blindmate connector interface from the flange housing. The floating action that results provides the misalignment tolerance and maintains a solid mating connection. Bear in mind that the spring forces are communicated to the mounting panel; in an extreme, mismatch situation, the force of several connectors, without sufficient reinforcement, can cause panels to bow. Illustrated below are the forces commonly exerted upon a mated connector pair in an extreme scenario.

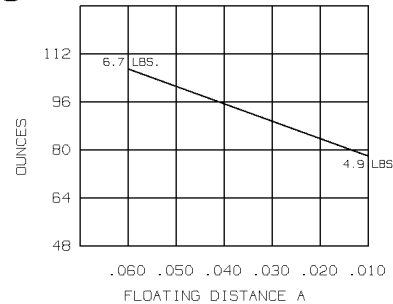
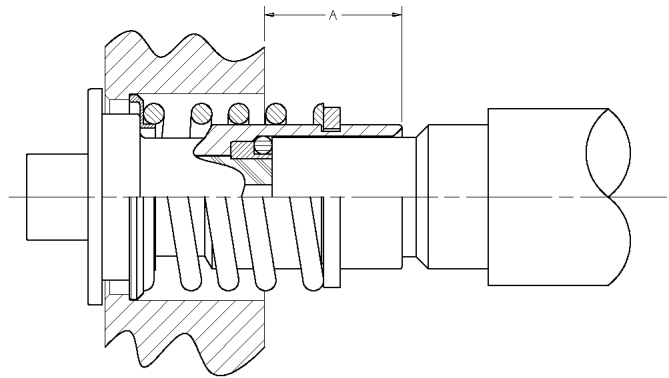


BMA Spring Load Forces

Note: Dimensions are in decimal inches.



BMZ Spring Load Forces



BZ Spring Load Forces

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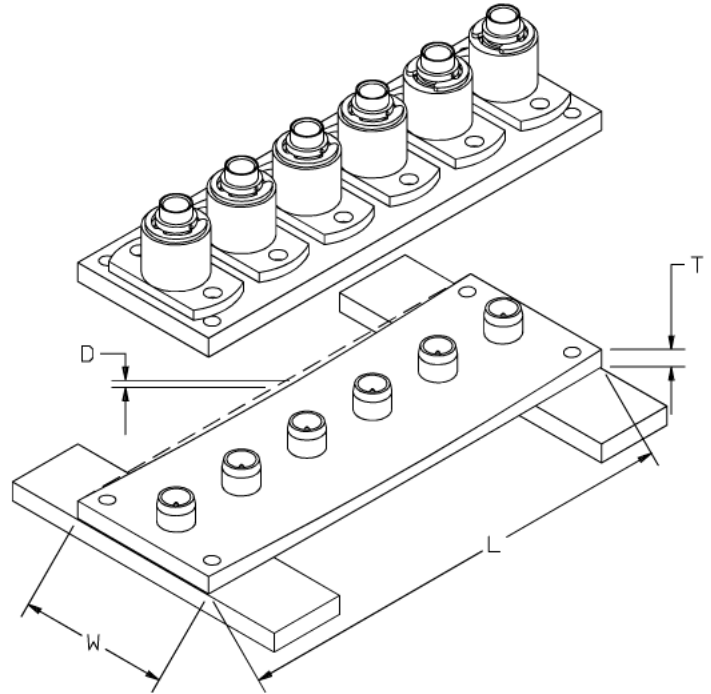
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BLINDMATE CONNECTOR SYSTEM

Deflection Calculation

Interface mating forces and, in the case of float mount connectors, spring preload forces must be considered when mounting several blindmate connectors on a panel. Taking these forces into account in the design stage will prevent distortion (deflection) of the panel and, through proper mating, insure optimum performance. One technique used to estimate the amount of potential distortion is to view the panel as a beam under deflection. These examples illustrate this technique using 6 BMA float mount connectors on an aluminum and a stainless steel panel.



$$\text{Deflection: } D = \frac{FL^3}{384 EI}$$

$$\text{Moment of a Beam: } I = \frac{WT^3}{12}$$

Material: 6061T6 Aluminum

Modulus of Elasticity: $E = 10 \times 10^6$ PSI

Float Mount Connector Example:

- 6 float mount BMAs with a maximum compression load of 4 lbs. 8 oz. each ($F = 27$ lbs.)
- Aluminum mounting plate 6061T6
.090 inch thick (T) x .750 inch wide (W) x 2.00 inch long (L)

$$I = 4.56 \times 10^{-5} \text{ inch}^4$$

$$D = \frac{(27)(2.00)^3}{(384)(10 \times 10^6)(4.56 \times 10^{-5})} = .00123 \text{ inch}$$

Material: Stainless Steel 18-8

Modulus of Elasticity: $E = 27.6 \times 10^6$ PSI

$$D = .00045 \text{ inch}$$

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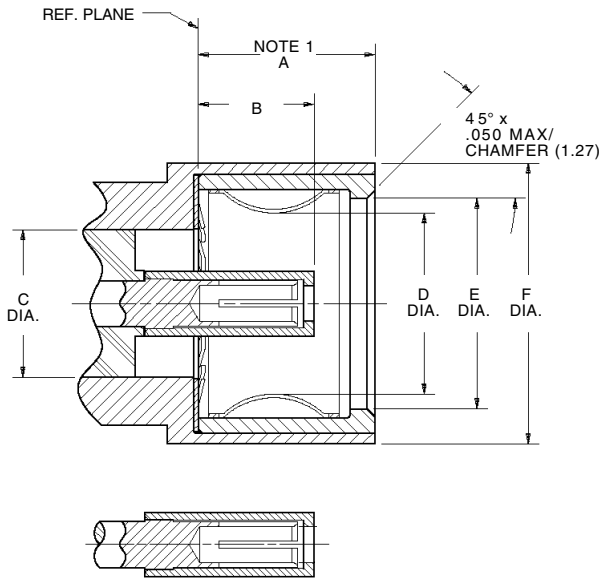
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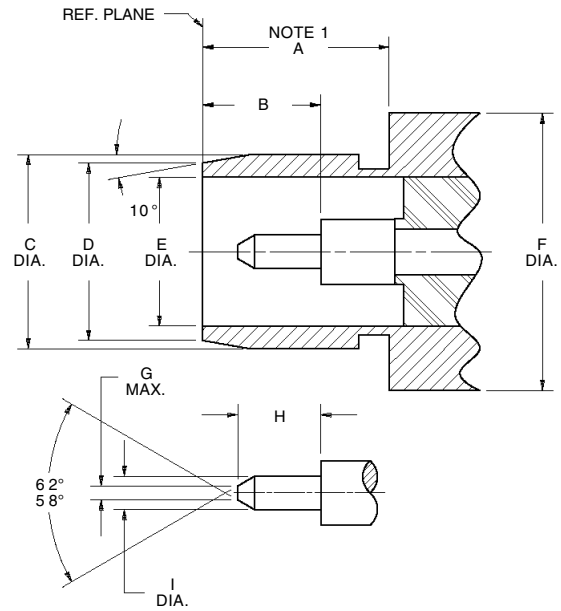
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Interface Mating Dimensions



CLOSED TO MEET VSWR, MATING CHARACTERISTICS AND CONNECTOR DURABILITY WHEN MATED WITH APPROPRIATE MALE CONTACT.



Jack

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .195 Max. (5.03) |
| B | .127 Max. (3.23) |
| C | .161 Nom. (4.09) |
| D | .200 Max. (5.08) |
| E | .225 Min. (5.72) |
| F | .290 Min. (7.37) |

NOTES:

1. With spring finger bottomed.

Plug

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .198 Min. (5.03) |
| B | .128 Min. (3.25) |
| C | .211 Max. (5.36) |
| D | .192 Nom. (4.88) |
| E | .161 Nom. (4.09) |
| F | .300 Nom. (7.62) |
| G | .015 Max. (0.38) |
| H | .090 Nom. (2.29) |
| I | .037 Max. (.94) |

NOTES:

1. Clearance for mating connector coupling nut.

Dimensions are in inches.
Metric equivalents are given for general information only.

Specifications

General

| | |
|-----------|--|
| Materials | Body, Stainless steel per AMS-5640, UNS S30300, Type I. Brass is also available. Contact, Beryllium copper per ASTM-B-196. PTFE per ASTM-D-1710 |
| Finish | Body, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1 or passivate. Center Contact, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1 |
| Design | Interface dimensions per MIL-STD-348. |

Electrical

| | RG 402 (.141) Semi-Rigid | RG 405 (.085) Semi-Rigid |
|---|---|---------------------------------|
| Frequency | DC to 22 GHz (DC to 26.5 GHz available for semi-rigid cable and receptacles) | DC to 22 GHz |
| Nominal Impedance | 50 Ohms | 50 Ohms |
| VSWR | | |
| DC to 18 GHz | 1.02 + .005f (GHz) | 1.05 + .005f (GHz) |
| 18 to 22 GHz | 1.02 + .008f (GHz) | 1.05 + .009f (GHz) |
| RF Transmission Loss | .03x√f (GHz) | .03x√f (GHz) |
| Insulation Resistance | 5,000 Megohms Min. | 5,000 Megohms Min. |
| Contact Resistance | | |
| Center Contact | 2.0 Milliohms Max. | 2.0 Milliohms Max. |
| Outer Contact | 2.0 Milliohms Max. | 2.0 Milliohms Max. |
| Dielectric Withstanding Voltage | 1500 Volts RMS | 1000 Volts RMS |
| Corona Extinction Voltage at 70,000 Ft. | 375 Volts Min. | 335 Volts Min. |
| RF High Potential at 5 MHz | 1,000 Volts RMS | 670 Volts RMS |
| RF Leakage | -(90-fGHz) dB Min. | -(90-fGHz) dB min. |
| Interface Only | (fully mated) | (fully mated) |

Mechanical

| | |
|--------------------------|-----------------|
| Force to Engage | 48 Ounces Max. |
| Force to Disengage | 1.5 Pounds Max. |
| Center Contact Retention | 6 Pounds Min. |
| Durability | 5,000 Cycles |
| Radial Misalignment | |
| Rigid Mount | ± .004 Inch |
| Float Mount | ± .020 Inch |

Environmental

| | |
|--------------------------------|---|
| Temperature Rating | -65°C to +125°C (Semi-Rigid) |
| Corrosion (Salt Spray) | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D, 20 Gs |
| Shock | MIL-STD-202, Method 213, Condition I, 100 Gs |
| Thermal Shock | MIL-STD-202, Method 107, Condition B, -65°C to +125°C |
| Moisture Resistance | MIL-STD-202, Method 106, Less Step 7B |
| Barometric Pressure (Altitude) | MIL-STD-202, Method 105, Condition C, 70,000 Ft. |

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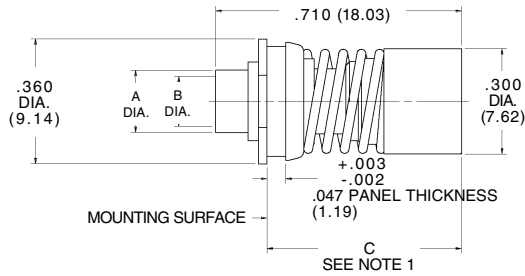
BMA BLINDMATE CONNECTORS DC to 22 GHz

Semi-Rigid Cable • Direct Solder Attachment

Low Profile • Panel Feedthrough Cable Jack Floating Rear Mount

| Cable | RG-405/U (.085) | RG-402/U (.141) |
|-------------|----------------------------|----------------------------|
| Part Number | 1740-6001 | 1742-6002 |
| Dim. A | Inches (mm) .120 (3.05) | Inches (mm) .180 (4.57) |
| Dim. B | .089 Min. (2.26) | .144 Min. (3.66) |
| Dim. C | .580 (14.73) | .580 (14.73) |

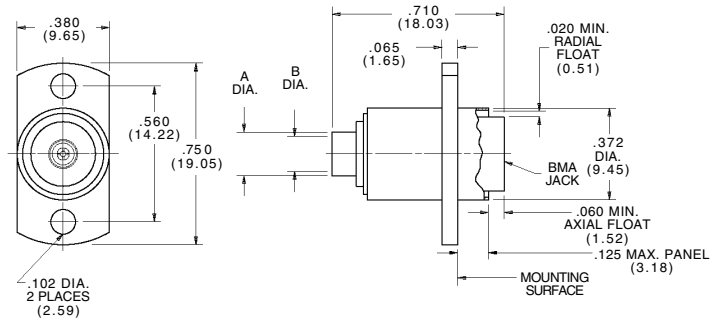
Finish: Housing that is soldered to cable outer conductor is gold plated.
Refer to Recommended Mounting Hole Detail E in Appendix A.
NOTE 1: With .060 Min. (1.52) axial float.



Flange Mount Cable Jack Floating Rear Mount

| Cable | RG-405/U (.085) | RG-402/U (.141) |
|---------------------|----------------------------|----------------------------|
| Commercial Part No. | SF1733-6006 | SF1732-6004 |
| MIL Part Number | M31031/11-E5N02 | M31031/11-E5N01 |
| Dim. A | Inches (mm) .120 (3.05) | Inches (mm) .180 (4.57) |
| Dim. B | .089 Min. (2.26) | .144 Min. (3.66) |

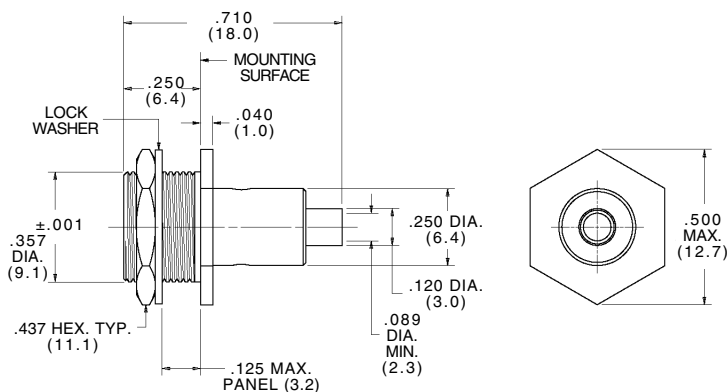
Flange shroud will rotate a full 360° for optimum adjustment prior to mounting.
Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.
Refer to Recommended Mounting Hole Detail A in Appendix A.
A semi-rigid cable service loop is recommended.



Bulkhead Feedthrough Cable Jack Rear Mount

| Cable | RG-405/U (.085) |
|-------------|------------------|
| Part Number | 1733-6008 |

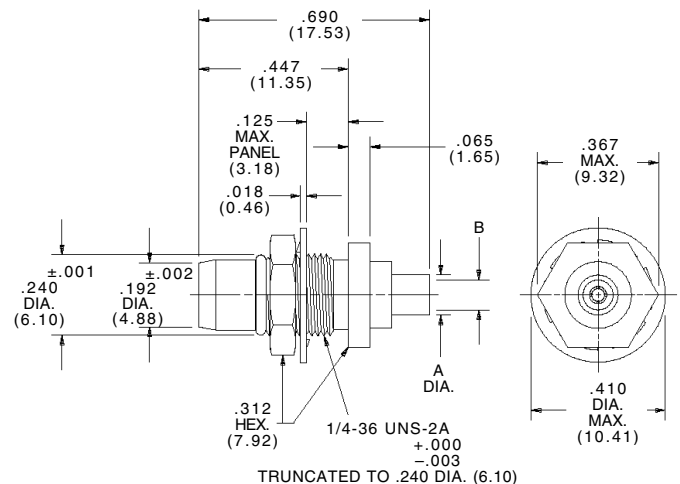
Finish: Gold plated.
Refer to Recommended Mounting Hole Detail O in Appendix A.



Bulkhead Feedthrough Cable Plug Rear Mount

| Cable | RG-405/U (.085) | RG-402/U (.141) |
|---------------------|----------------------------|----------------------------|
| Commercial Part No. | 1708-6003 | 1709-6002 |
| MIL Part Number | M31031/12-E5N02 | M31031/12-E5N01 |
| Brass Body Part No. | 1708-0001 | — |
| Dim. A | Inches (mm) .120 (3.05) | Inches (mm) .180 (4.57) |
| Dim. B | .089 Min. (2.26) | .144 Min. (3.66) |

Finish: Gold plated.
Refer to Recommended Mounting Hole Detail C in Appendix A.



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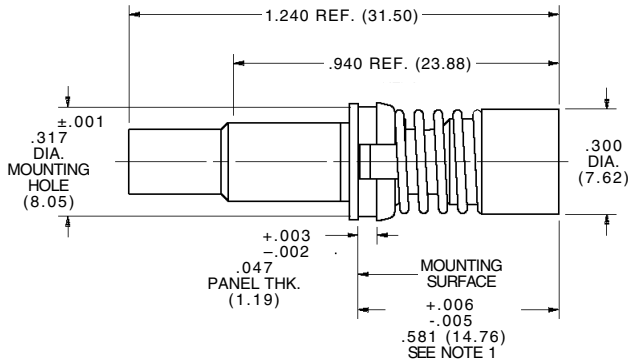
BMA BLINDMATE CONNECTORS DC to 22 GHz

Flexible Cable • Crimp Attachment

Low Profile • Panel Feedthrough Cable Jack Floating Rear Mount • DC to 12.4 GHz

| Cable | RG-316 |
|-------------|--------------------|
| Part Number | SF1721-6002 |

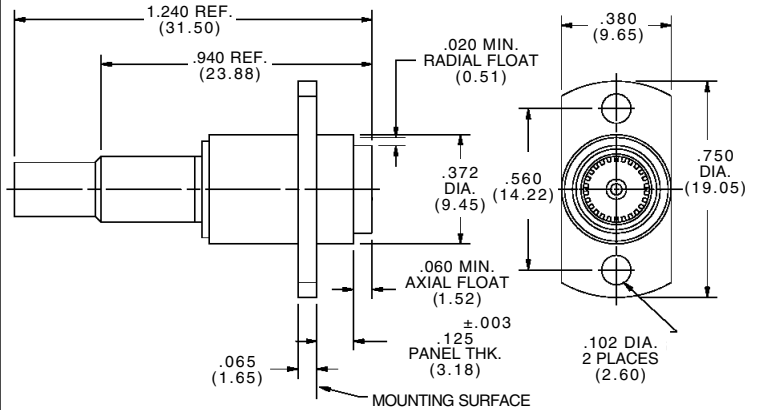
Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail E in Appendix A.
NOTE 1: With .060 Min. (1.52) axial float.



Flange Mount Cable Jack • Floating Rear Mount DC to 12.4 GHz

| Cable | RG-400 | RG-316 |
|---------------------|------------------------|------------------------|
| Commercial Part No. | SF1738-6001 | SF1738-6002 |
| MIL Part Number | M31031/01-A5N02 | M31031/01-A5N01 |

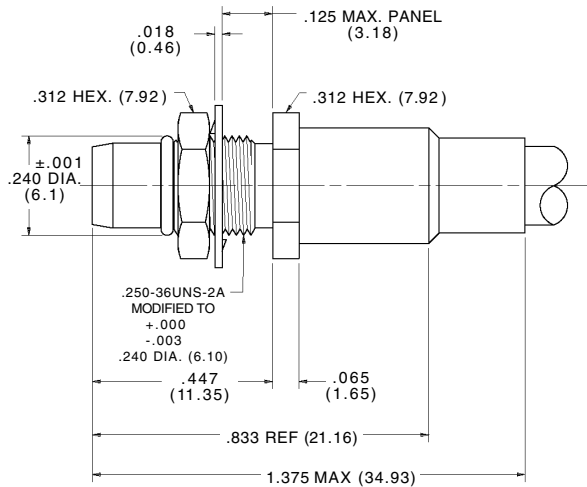
Flange shroud will rotate a full 360° for optimum adjustment prior to mounting.
Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail A in Appendix A.



Bulkhead Feedthrough Cable Plug Rear Mount • DC to 12.4 GHz

| Cable | RG-400 | RG-316 |
|---------------------|------------------------|------------------------|
| Commercial Part No. | SF1708-6301 | SF1708-6302 |
| MIL Part Number | M31031/02-E5N02 | M31031/02-E5N01 |

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail C in Appendix A.

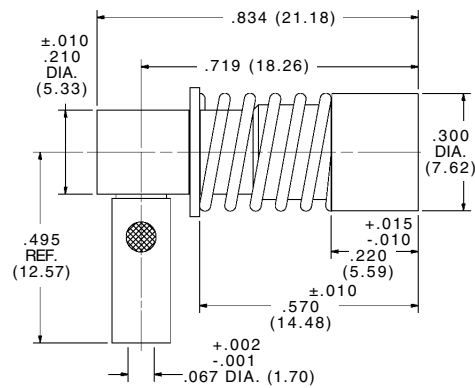


Flexible Cable • Solder Attachment

Low Profile • Panel Feedthrough Right Angle Cable Jack • Floating Rear Mount DC to 12.4 GHz

| Cable | RG-316 |
|-------------|--------------------|
| Part Number | SF1769-6501 |

Finish: Gold plate.
See Recommended Mounting Hole Detail P in Appendix A.



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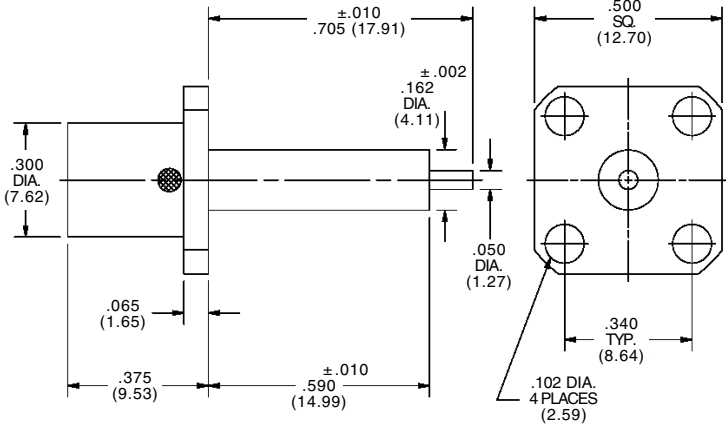
BMA BLINDMATE CONNECTORS DC to 22 GHz

Panel Mount • Straight Terminal

Flange Mount Jack Receptacle

| | |
|-------------|--------------------|
| Part Number | SF1750-6101 |
|-------------|--------------------|

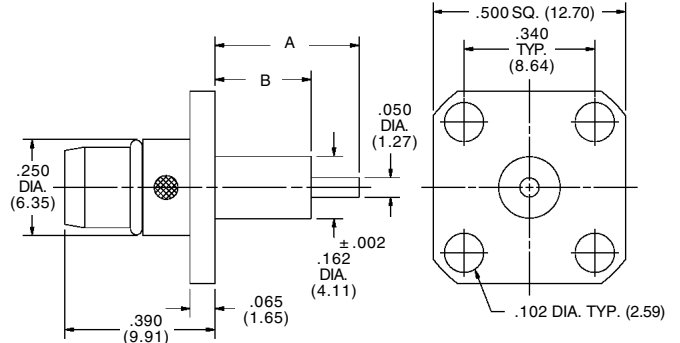
Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail J in Appendix A.



Flange Mount Plug Receptacle

| Part Number | SF1755-6104 | | SF1755-6105 | |
|-------------|--------------------|---------|--------------------|--------|
| Dim. A | Inches | (mm) | Inches | (mm) |
| Dim. A | .488 | (12.40) | .375 | (9.53) |
| Dim. B | .330 | (8.38) | .250 | (6.35) |

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail J in Appendix A.

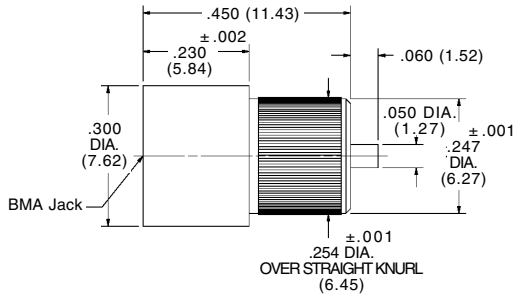


Press-In Receptacles

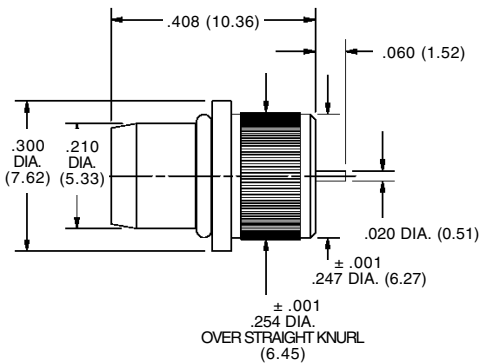
| | |
|------------------|--------------------|
| Jack Part Number | SF1772-6005 |
| Plug Part Number | SF1774-6001 |

Finish: Passivated stainless steel. For jack, see Recommended Mounting Hole K in Appendix A. For plug, see Recommended Mounting Hole D in Appendix A.

Jack



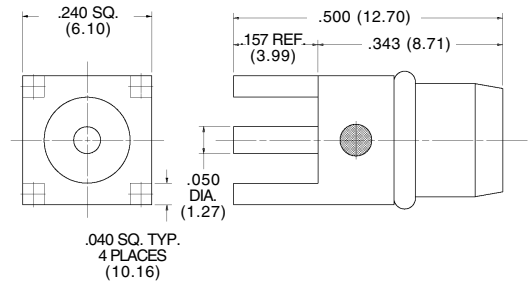
Plug



Straight Plug Receptacle Printed Circuit Board

| | |
|-------------|------------------|
| Part Number | 1785-6001 |
|-------------|------------------|

Finish: Gold plate.
See Recommended Mounting Hole L in Appendix A.



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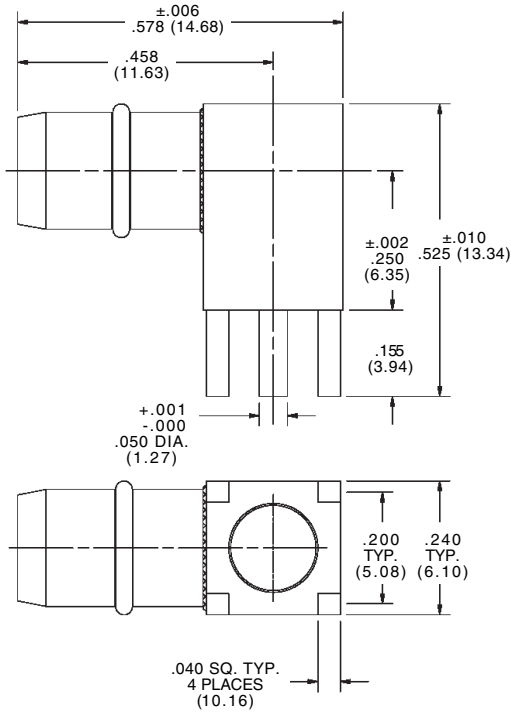
Phone: 561-840-1800 • FAX: 561-842-6277

Panel Mount • Straight Terminal

Right Angle Plug Receptacle Printed Circuit Board

Part Number **1789-6001**

Finish: Gold plate.
See Recommended Mounting Hole Detail L in
Appendix A.

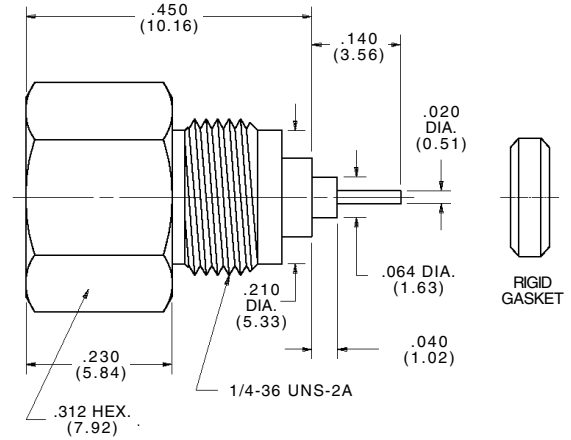


Metal-to-Metal Hermetic Seal

Rigid Gasket Seal Panel Feedthrough Jack Receptacle

Part Number **SF1778-6000**

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail M in
Appendix A.

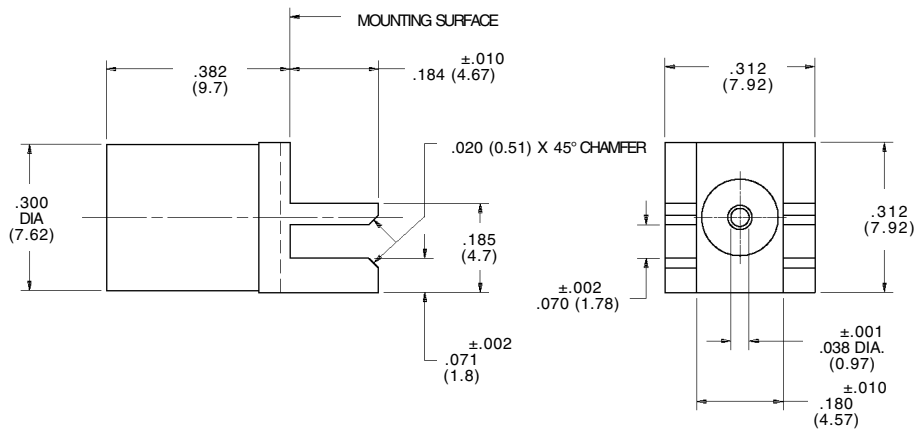


Panel Mount • End Launch

Jack Receptacle • Printed Circuit Board

Part Number **1785-0003**

Finish: Tri-metal (copper, tin, zinc) plated brass body.



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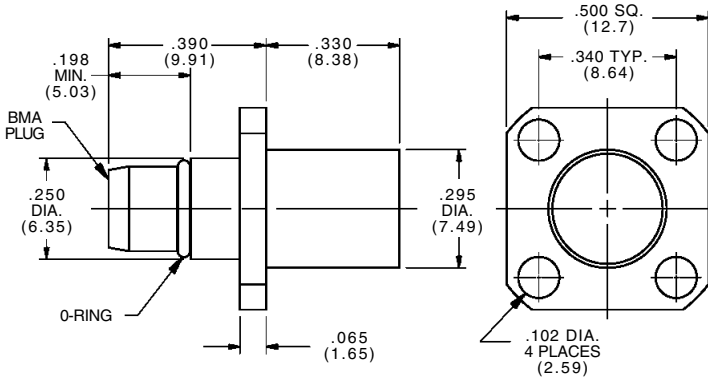
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Flange Mount Plug Termination DC – 18 GHz

| | |
|--------------------|--------------------|
| Part Number | SF8017-6001 |
| Power Avg. (Watts) | 1.0* |

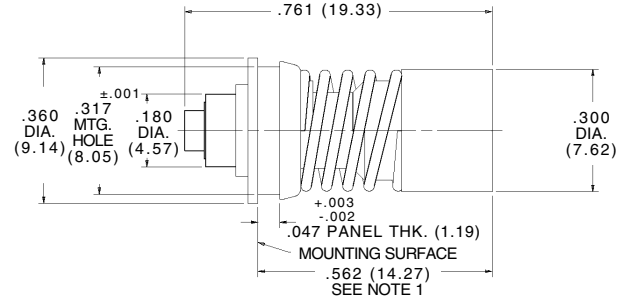
Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail J in Appendix A.
*Power derated linearly to 10% power at 125°C.



Float Mount Jack Termination DC – 12 GHz

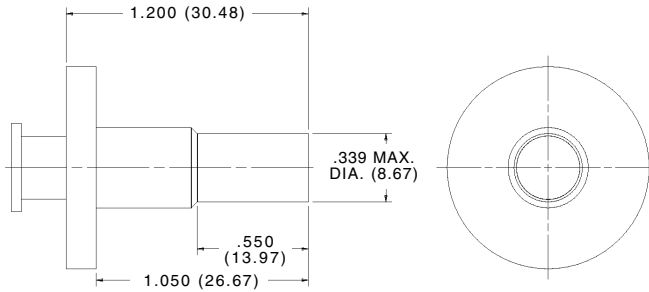
| | |
|--------------------|------------------|
| Part Number | 8017-6002 |
| Power Avg. (Watts) | 1.0* |

Finish: Gold plate.
See Recommended Mounting Hole Detail E in Appendix A.
*Power derated linearly to 10% power at 125°C
NOTE 1: With .060 Min. (1.52) axial float..



BMA Removal Tool

| | |
|-------------|-------------------|
| Part Number | 500-17-000 |
|-------------|-------------------|

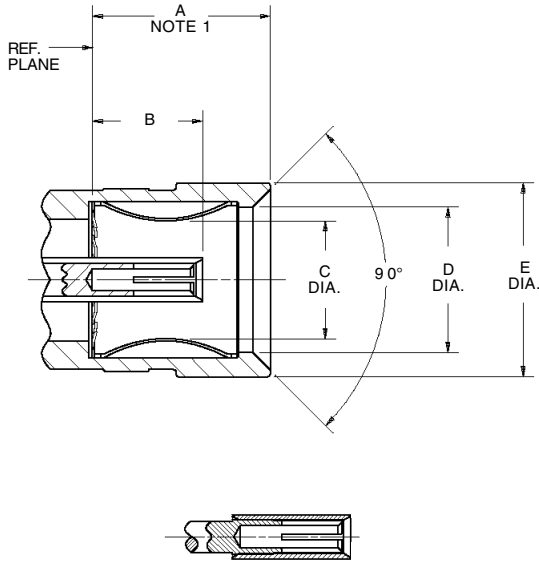


Between-Series Adapters

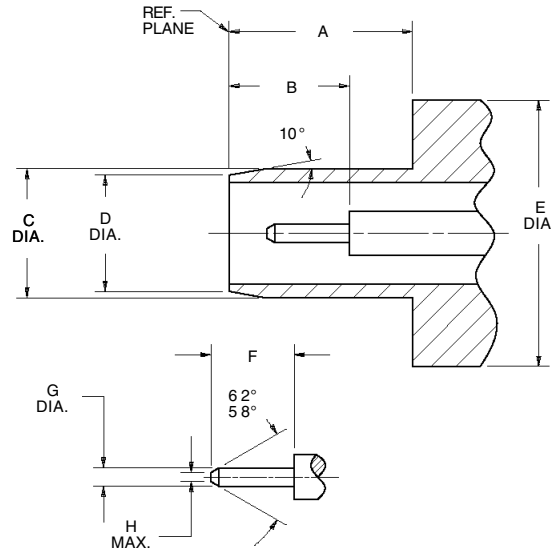
| Description | Part Number |
|------------------------|--------------------|
| SMA Jack to BMA Jack | SF1157-6009 |
| SMA Plug to BMA Jack | SF1157-6013 |
| SMA Plug to BMA Plug | SF1157-6010 |
| SMA Jack to BMA Plug | SF1158-6001 |
| 3.5mm Jack to BMA Jack | 1139-6004 |
| 3.5mm Jack to BMA Plug | 1139-6005 |

Finish: BMA to SMA are passivated stainless steel.
BMA to 3.5mm are gold plate.

Interface Mating Dimensions



CLOSED TO MEET VSWR, MATING CHARACTERISTICS AND CONNECTOR DURABILITY WHEN MATED WITH APPROPRIATE MALE CONTACT.



Jack

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .197 Nom. (5.00) |
| B | .127 Max. (3.23) |
| C | .132 Max. (3.35) |
| D | .154 Min. (3.91) |
| E | .210 Ref. (5.33) |

NOTES:

1. With spring finger bottomed.

Plug

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .199 Min. (5.05) |
| B | .128 Min. (3.25) |
| C | .140 Nom. (3.56) |
| D | .126 Nom. (3.20) |
| E | .210 Ref. (5.33) |
| F | .090 Nom. (2.29) |
| G | .020 Nom. (.51) |
| H | .012 Max (.30) |

Dimensions are in inches.

Metric equivalents are given for general information only.

Specifications

General

| | |
|-----------|---|
| Materials | Body, Stainless steel per AMS-5640, UNS S30300, Type I. Contact, Beryllium copper per ASTM-B-196. PTFE per ASTM-D-1710. |
| Finish | Body, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1 or passivate. Center Contact, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1. |
| Design | Interface dimensions per MIL-STD-348. |

Electrical

| | |
|--|-------------------------------------|
| | RG 405 (.085) Semi-Rigid |
| Frequency | DC to 28 GHz |
| Nominal Impedance | 50 Ohms |
| VSWR | 1.05 + .01f (GHz) |
| RF Transmission Loss | .040 x \sqrt{f} (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-fGHz) dB Min. (fully mated) |

Mechanical

| | |
|--------------------------|-----------------|
| Force to Engage | 48 Ounces Max. |
| Force to Disengage | 1.5 Pounds Max. |
| Center Contact Retention | 4 Pounds Min. |
| Durability | 5,000 Cycles |
| Radial Misalignment | |
| Rigid Mount | ±.0025 Inch |
| Float Mount | ±.020 Inch |

Environmental

| | |
|--------------------------------|---|
| Temperature Rating | -65°C to +125°C (Semi-Rigid) |
| Corrosion (Salt Spray) | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D, 20 Gs |
| Shock | MIL-STD-202, Method 213, Condition I, 100 Gs |
| Thermal Shock | MIL-STD-202, Method 107, Condition B, -65°C to +125°C |
| Moisture Resistance | MIL-STD-202, Method 106, Less Step 7B |
| Barometric Pressure (Altitude) | MIL-STD-202, Method 105, Condition C, 70,000 Ft. |

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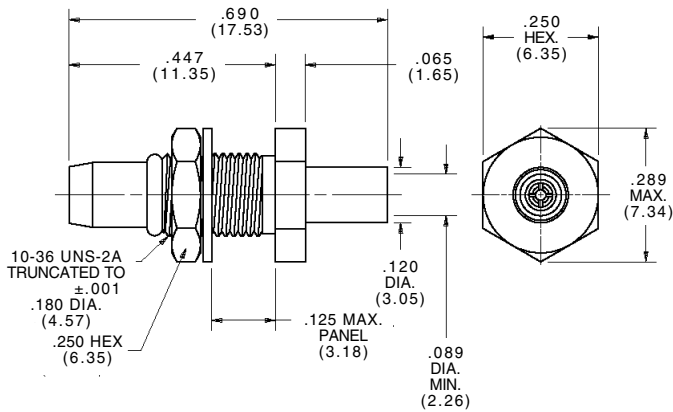
Phone: 561-840-1800 • FAX: 561-842-6277

Semi-Rigid Cable • Direct Solder Attachment

Bulkhead Feedthrough Cable Plug Rear Mount

| | |
|-------------|------------------|
| Cable | RG-405/U (.085) |
| Part Number | 1408-6002 |

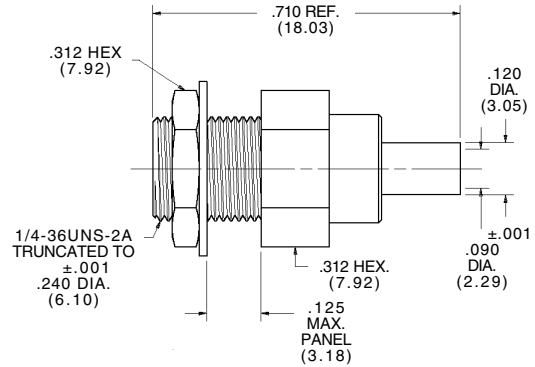
Finish: Gold plated.
See Recommended Mounting Hole Detail H in Appendix A.



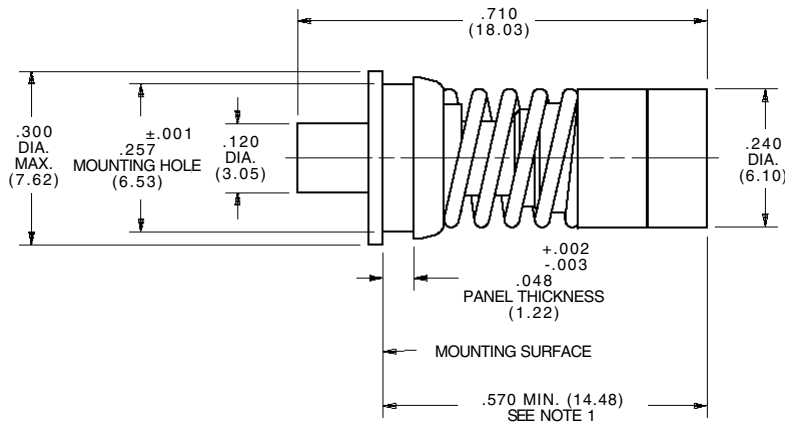
Bulkhead Feedthrough Cable Jack Rear Mount

| | |
|-------------|------------------|
| Cable | RG-405/U (.085) |
| Part Number | 1444-6001 |

Finish: Gold plated.
See Recommended Mounting Hole Detail C in Appendix A.



Low Profile • Panel Feedthrough Cable Jack • Floating Rear Mount



| | |
|-------------|------------------|
| Cable | RG-405/U (.085) |
| Part Number | 1440-6001 |

Finish: Gold plated.
See Recommended Mounting Hole Detail G in Appendix A.
NOTE 1: With .060 Min. (1.52) axial float.

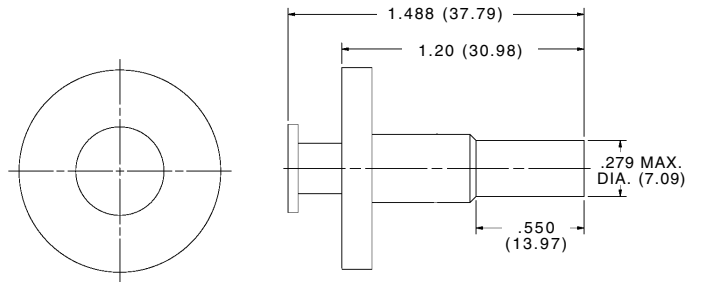
Between-Series Adapters

| Description | Part Number |
|-----------------------|---------------------|
| SMA Jack to BMMA Jack | SF1114-6005 |
| SMA Plug to BMMA Jack | SF1114-6006 |
| SMA Plug to BMMA Plug | SF1114-6007 |
| SMA Jack to BMMA Plug | SF-1114-6008 |

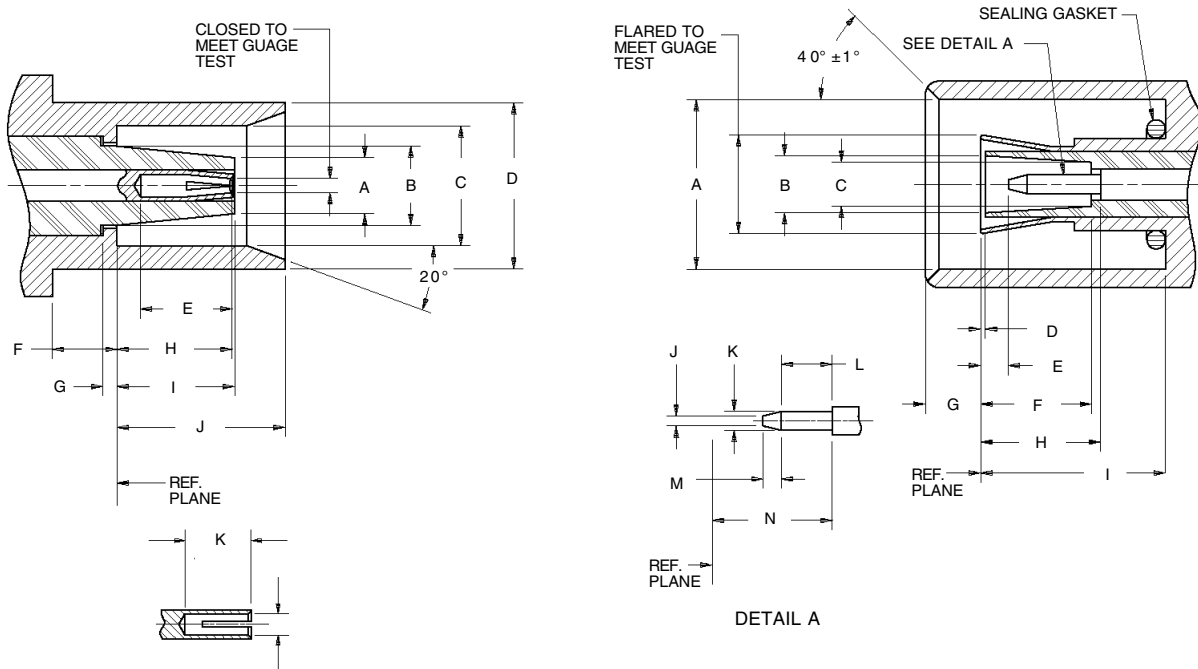
Finish: BMMA and SMA are passivated stainless steel.

BMMA Removal Tool

| | |
|-------------|-------------------|
| Part Number | 500-14-000 |
|-------------|-------------------|



Interface Mating Dimensions



CLOSED TO MEET VSWR, MATING CHARACTERISTICS AND CONNECTOR DURABILITY WHEN MATED WITH APPROPRIATE MALE CONTACT.

Jack

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .062 Max. (1.57) |
| B | .087 Max. (2.21) |
| C | .129 Min. (3.28) |
| D | .188 Max. (4.78) |
| E | .095 Min. (2.41) |
| F | .070 Min. (1.78) |
| G | .010 Max. (.25) |
| H | .130 Max. (3.30) |
| I | .130 Max. (3.30) |
| J | .188 Max. (4.78) |
| K | .105 Min. (2.63) |

Plug

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .184 Min. (4.67) |
| B | .087 Min. (2.21) |
| C | .062 Min. (1.57) |
| D | .010 Max. (.25) |
| E | .030 Min. (.76) |
| F | .130 Min. (3.30) |
| G | .065 Min. (1.65) |
| H | .130 Min. (3.30) |
| I | .203 Max. (5.16) |
| J | .011 Max. (.28) |
| K | .021 Max. (.53) |
| L | .060 Min. (1.52) |
| M | .015 Min. (.38) |
| N | .130 Min. (3.30) |

Dimensions are in inches.
Metric equivalents are given for general information only.

Specifications

General

| | |
|-----------|---|
| Materials | Body, Stainless steel per AMS-5640, UNS S30300, Type I. Contact, Beryllium copper per ASTM-B-196. PFTE per ASTM-D-1710. |
| Finish | Body, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1 or passivate. Center Contact, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1. |
| Design | Interface dimensions per MIL-STD-348. |

Electrical

| | |
|--|-------------------------------------|
| | RG 405 (.085) Semi-Rigid |
| Frequency | DC to 18 GHz |
| Nominal Impedance | 50 Ohms |
| VSWR | 1.05 + .01f (GHz) |
| RF Transmission Loss | .06 x \sqrt{f} (GHz) |
| Insulation Resistance | 10,000 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 | 1,000 Volts RMS |
| Corona Extinction Voltage at 70,000 Ft. | 250 Volts Min. |
| RF High Potential at 5 MHz | 500 Volts RMS |
| RF Leakage Interface Only | -(80-fGHz) dB Min. (fully mated) |

Mechanical

| | |
|--------------------------|----------------|
| Force to Engage | 12 Ounces Max. |
| Force to Disengage | 2 Ounces Min. |
| Center Contact Retention | 6 Pounds Min. |
| Durability | 500 Cycles |
| Radial Misalignment | |
| Rigid Mount | ± .0025 Inch |
| Float Mount | ± .020 Inch |

Environmental

| | |
|--------------------------------|---|
| Temperature Rating | -65°C to +125°C (Semi-Rigid) |
| Corrosion (Salt Spray) | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D, 20 Gs |
| Shock | MIL-STD-202, Method 213, Condition I, 100 Gs |
| Thermal Shock | MIL-STD-202, Method 107, Condition B, -65°C to +125°C |
| Moisture Resistance | MIL-STD-202, Method 106, Less Step 7B |
| Barometric Pressure (Altitude) | MIL-STD-202, Method 105, Condition C, 70,000 Ft. |

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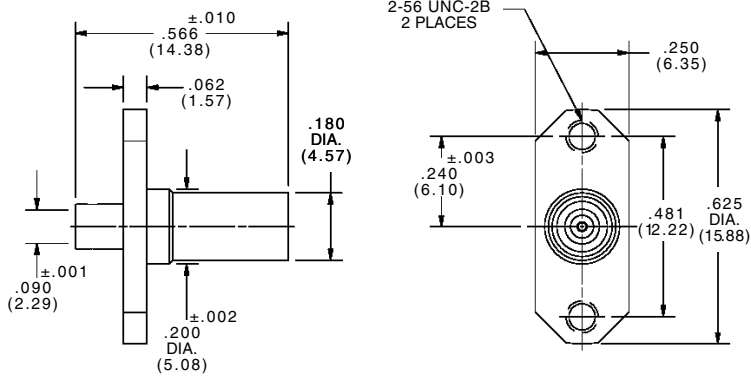
BMZ BLINDMATE CONNECTORS DC to 18 GHz

Semi-Rigid Cable • Direct Solder Attachment

Flange Mount Cable Jack • Rear Mount

| | |
|-------------|--------------------|
| Cable | RG-405/U (.085) |
| Part Number | SF8934-6001 |

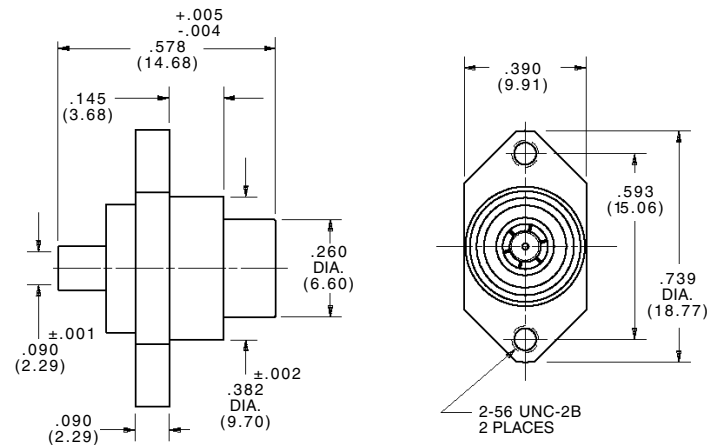
Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.
Refer to Recommended Mounting Hole Detail N in Appendix A.



Flange Mount Cable Plug • Floating Rear Mount

| | | |
|-------------|--------------------|--------------------|
| Cable | RG-405/U (.085) | RG-402/U (.141) |
| Part Number | SF8903-6001 | SF8901-6003 |

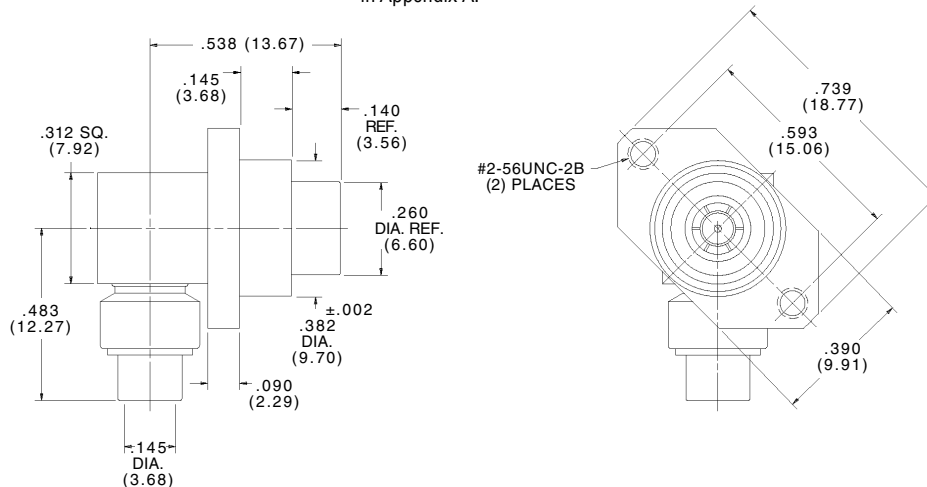
Flange shroud will rotate a full 360° for optimum alignment prior to mounting. Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.
Refer to Recommended Mounting Hole Detail B in Appendix A.



Flange Mount Right Angle Cable Plug Floating Rear Mount

| | |
|-------------|--------------------|
| Cable | RG-402/U (.141) |
| Part Number | SF8958-6000 |

Flange shroud will rotate a full 360° for optimum alignment prior to mounting. Finish: Inner housing that is soldered to cable is gold plated. Outer housing is passivated stainless steel.
Refer to Recommended Mounting Hole Detail B in Appendix A.



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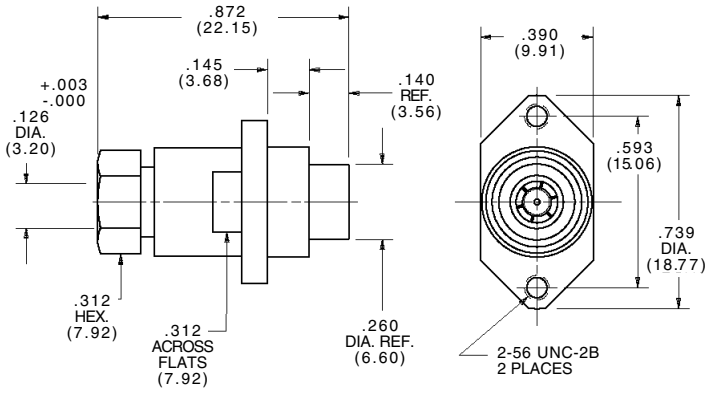
Phone: 561-840-1800 • FAX: 561-842-6277

Flexible Cable • Clamp Attachment

Flange Mount Cable Plug • Floating Rear Mount

| | |
|-------------|--------------------|
| Cable | RD-316 |
| Part Number | SF8961-6010 |

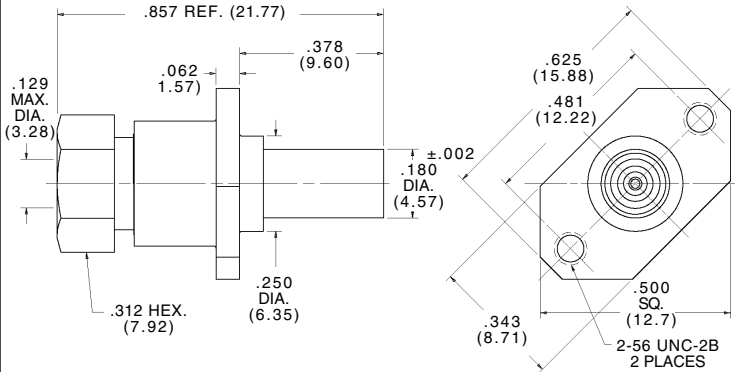
Flange shroud will rotate a full 360° for optimum alignment prior to mounting.
 Finish: Passivated stainless steel.
 Refer to Recommended Mounting Hole Detail B in Appendix A.



Flange Mount Cable Jack • Rear Mount

| | |
|-------------------------|--------------------|
| Cable | RD-316 |
| Commercial Part No. | SF8931-6006 |
| DSCC Drawing 91012ZSP-3 | SF8931-6005 |

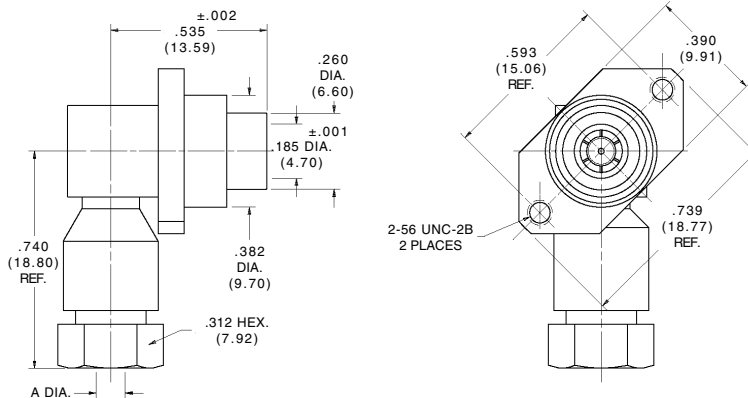
Finish: Passivated stainless steel.
 Refer to Recommended Mounting Hole Detail N in Appendix A.



Flange Mount Right Angle Cable Plug Floating Rear Mount

| Cable | RG-178 | RG-196 | RD-316 |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|
| Commercial Part No. | SF8961-6008 | SF8961-6002 | SF8961-6014 |
| DSCC Drawing 91013ZSP-3 | — | — | SF8961-6005 |
| Dim. A | Inches(mm) .102 Max. (2.59) | Inches(mm) .118 Max. (2.30) | Inches(mm) .129 Max. (3.28) |

Flange shroud will rotate a full 360° for optimum alignment prior to mounting.
 Finish: Passivated stainless steel.
 See Recommended Mounting Hole Detail B in Appendix A.

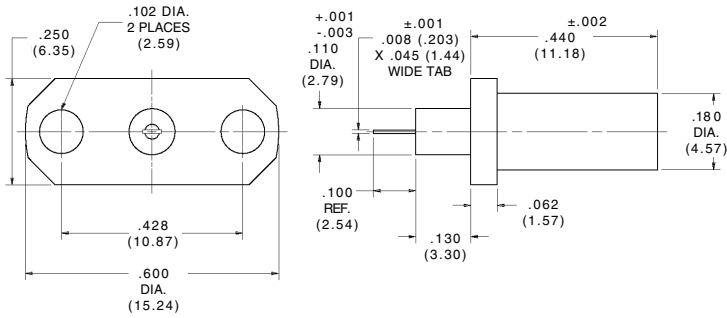


Panel Mount • Tab Terminal

Flange Mount Jack Receptacle

Part Number **SF8961-6006**

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail N in Appendix A.

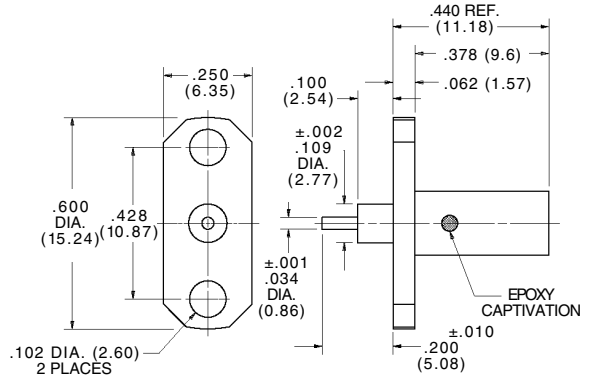


Panel Mount • Straight Terminal

Flange Mount Jack Receptacle

Part Number **SF8953-6100**

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail N in Appendix A.

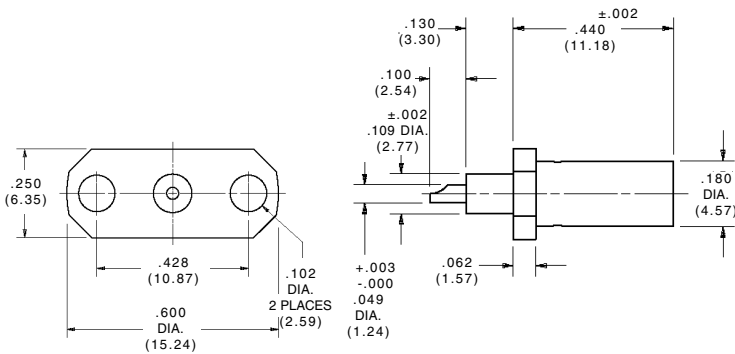


Panel Mount • Solder Pot Terminal

Flange Mount Jack Receptacle

Part Number **SF8950-6003**

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail N in Appendix A.



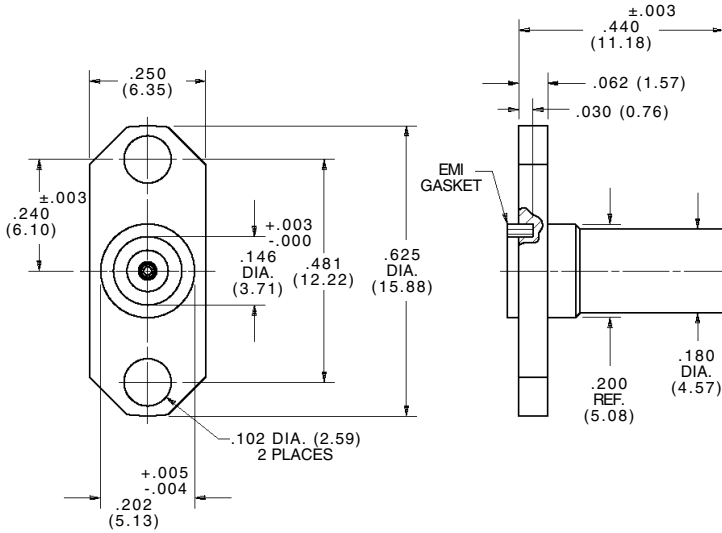
BMZ BLINDMATE CONNECTORS DC to 18 GHz

Panel Mount • EMI Gasket

Flange Mount Jack Receptacle Accepts .014 – .017 Dia Pin

| | |
|-------------|--------------------|
| Part Number | SF8961-6012 |
|-------------|--------------------|

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail R in Appendix A.



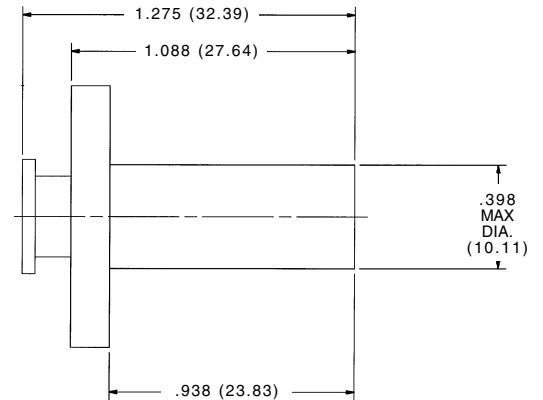
Between-Series Adapters

| Description | Part Number |
|----------------------|--------------------|
| SMA Jack to BMZ Jack | SF1189-6001 |
| SMA Plug to BMZ Jack | SF1189-6104 |
| SMA Plug to BMZ Plug | SF1189-6009 |
| SMA Jack to BMZ Plug | SF1189-6103 |

Finish: BMZ and SMA are passivated stainless steel.

BMZ Removal Tool

| | |
|-------------|-------------------|
| Part Number | 500-89-000 |
|-------------|-------------------|



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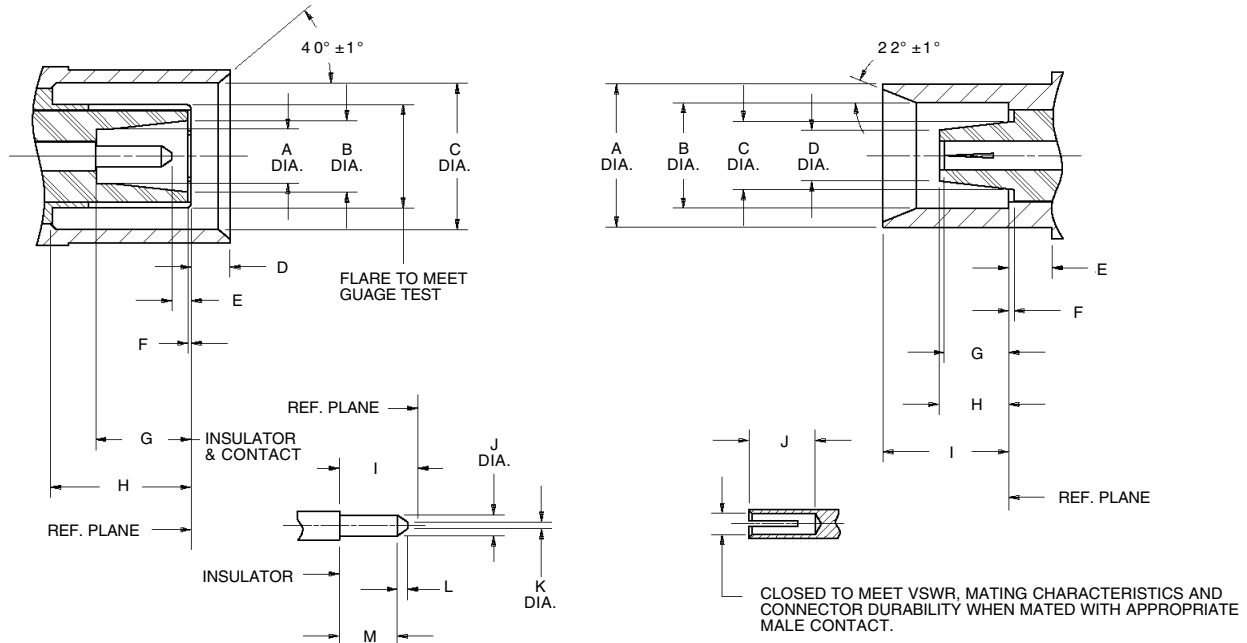
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Interface Mating Dimensions



Plug

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .090 Min. (2.29) |
| B | .122 Min. (3.10) |
| C | .251 Min. (6.38) |
| D | .072 Max. (1.83) |
| E | .020 Min. (.51) |
| F | .010 Max. (.25) |
| G | .130 Min. (3.30) |
| H | .250 Max. (6.35) |
| I | .130 Min. (.70) |
| J | .037 Max. (.94) |
| K | .015 Max. (.38) |
| L | .015 Min. (3.8) |
| M | .060 Min. (1.52) |

Jack

| Letter | Inches (Millimeters) |
|--------|----------------------|
| A | .249 Max. (6.32) |
| B | .182 Min. (4.62) |
| C | .122 Max. (3.10) |
| D | .090 Max. (2.29) |
| E | .075 Min. (1.91) |
| F | .010 Max. (.25) |
| G | .132 Max. (3.35) |
| H | .132 Max. (3.35) |
| I | .221 Max. (5.61) |
| J | .105 Min. (2.63) |

Dimensions are in inches.
Metric equivalents are given for general information only.

Specifications

General

| | |
|-----------|---|
| Materials | Body , Stainless steel per AMS-5640, UNS S30300, Type I. Contact, Beryllium copper per ASTM-B-196. PTFE per ASTM-D-17107 |
| Finish | Body, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class or passivate. Center Contact, Gold plated per ASTM-B-488 over nickel per SAE AMS-QQ-N-290, Class 1. |
| Design | Interface dimensions per MIL-STD-348. |

Electrical

| | RG 402 (.141) Semi-Rigid | RG 405 (.085) Semi-Rigid |
|--|---|-------------------------------------|
| Frequency | DC to 2 GHz (DC to 12.4 and 18 GHz units are available.) | DC to 2 GHz |
| Nominal Impedance | 50 Ohms | 50 Ohms |
| VSWR | 1.02 + .005f (GHz) | 1.05 + .005f (GHz) |
| RF Transmission Loss | .03x√f (GHz) | .03x√f (GHz) |
| Insulation Resistance | 5,000 Megohms Min. | 5,000 Megohms Min. |
| Contact Resistance | | |
| Center Contact | 2.0 Milliohms Max. | 2.0 Milliohms Max. |
| Outer Contact | 2.0 Milliohms Max. | 2.0 Milliohms Max. |
| Dielectric Withstanding Voltage | 1500 Volts RMS | 1000 Volts RMS |
| Corona Extinction Voltage at 70,000 Ft. | 375 Volts Min. | 335 Volts Min. |
| RF HighPotential at 5 MHz | 1,000 Volts RMS | 670 Volts RMS |
| RF Leakage Interface Only | -(90-fGHz) dB Min. (fully mated) | -(90-fGHz) dB min. (fully mated) |

Mechanical

| | |
|--------------------------|----------------|
| Force to Engage | 32 Ounces Max. |
| Force to Disengage | 20 Ounces Min. |
| Center Contact Retention | 6 Pounds Min. |
| Durability | 500 Cycles |
| Radial Misalignment | |
| Rigid Mount | ± .004 Inch |
| Float Mount | ± .020 Inch |

Environmental

| | |
|-----------------------------------|---|
| Temperature Rating | -65°C to +125°C (Semi-Rigid) |
| Corrosion (Salt Spray) | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D, 20 Gs |
| Shock | MIL-STD-202, Method 213, Condition I, 100 Gs |
| Thermal Shock | MIL-STD-202, Method 107, Condition B, -65°C to +125°C |
| Moisture Resistance | MIL-STD-202, Method 106, Less Step 7B |
| Barometric Pressure (Altitude) | MIL-STD-202, Method 105, Condition C, 70,000 Ft. |

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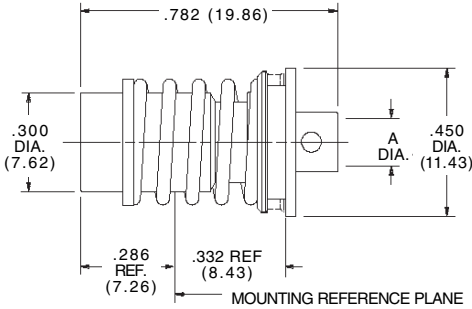
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Semi-Rigid Cable • Direct Solder Attachment

Low Profile • Bulkhead Feedthrough Cable Plug Floating Rear Mount

| | | |
|-------------|----------------------------|----------------------------|
| Cable | RG-405/U (.085) | RG-402/U (.141) |
| Part Number | SF8806-6006 | SF8802-6007 |
| Dim. A | Inches (mm) .090 (2.29) | Inches (mm) .145 (3.68) |

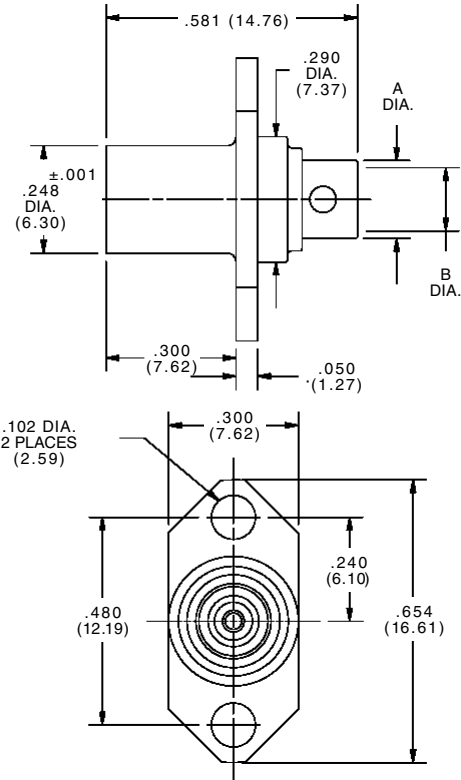
Finish: Housing that is soldered to cable outer conductor is gold plated.
Refer to Recommended Mounting Hole Detail F in Appendix A.



Flange Mount Cable Jack Fixed Rear Mount

| | | |
|-------------|----------------------------|----------------------------|
| Cable | RG-405/U (.085) | RG-402/U (.141) |
| Frequency | DC to 2 GHz | DC to 18 GHz |
| Power | — | 7 kW @ 2 GHz |
| Part Number | SF8820-6001 | SF8835-6000 |
| Dim. A | Inches (mm) .120 (3.05) | Inches (mm) .180 (4.57) |
| Dim. B | .090 (2.29) | .146 (3.71) |

Finish: Housing that is soldered to cable outer conductor is gold plated.
Refer to Recommended Mounting Hole Detail R in Appendix A.

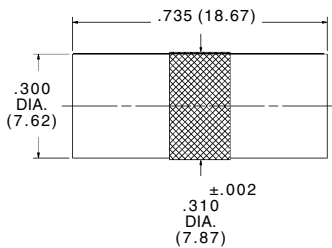


In-Series Adapters

Plug to Plug

| | |
|-------------|--------------------|
| Part Number | SF8890-6001 |
| Power | 7 kW |

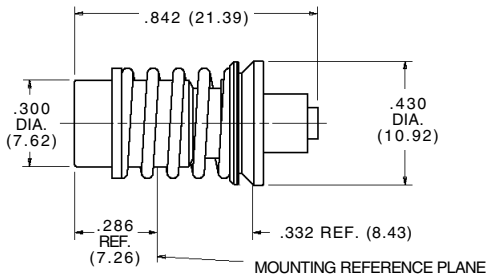
Finish: Passivated stainless steel



Snap-In Plug Termination

| | |
|--------------------|--------------------|
| Part Number | SF8088-6001 |
| Power Avg. (Watts) | 1.0* |

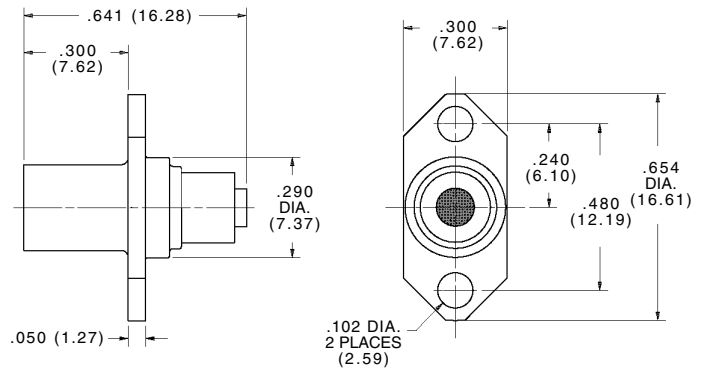
Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail F in Appendix A.
*Power derated linearly to 10% power at 125°C.



Flange Mount Jack Termination

| | |
|--------------------|--------------------|
| Part Number | SF8088-6002 |
| Power Avg. (Watts) | 1.0* |

Finish: Passivated stainless steel.
See Recommended Mounting Hole Detail R in Appendix A.
*Power derated linearly to 10% power at 125°C.



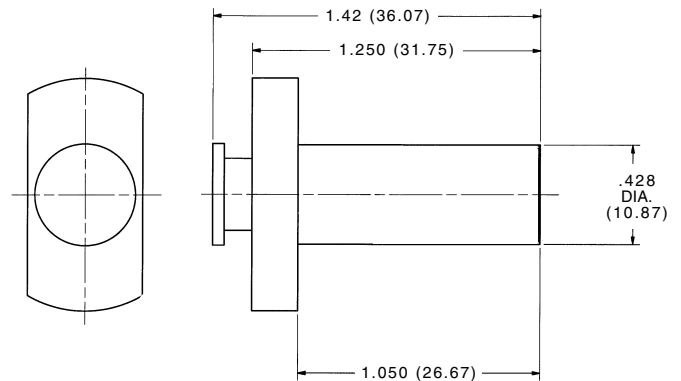
Between-Series Adapters

| Description | Part Number |
|-----------------------|--------------------|
| SMA Jack to BZ Jack | SF1122-6108 |
| SMA Plug to BZ Jack | SF1122-6106 |
| SMA Plug to BZ Plug | SF1122-6102 |
| SMA Jack to BZ Plug | SF1122-6101 |
| 3.5mm Jack to BZ Jack | SF1188-6003 |
| 3.5mm Plug to BZ Jack | SF1188-6002 |

Finish: BZ to SMA are passivated stainless steel.
BZ to 3.5mm are gold plate.

BZ Removal Tool

| | |
|-------------|-------------------|
| Part Number | 500-88-002 |
|-------------|-------------------|



BZ Calibration Kit available. Contact factory.

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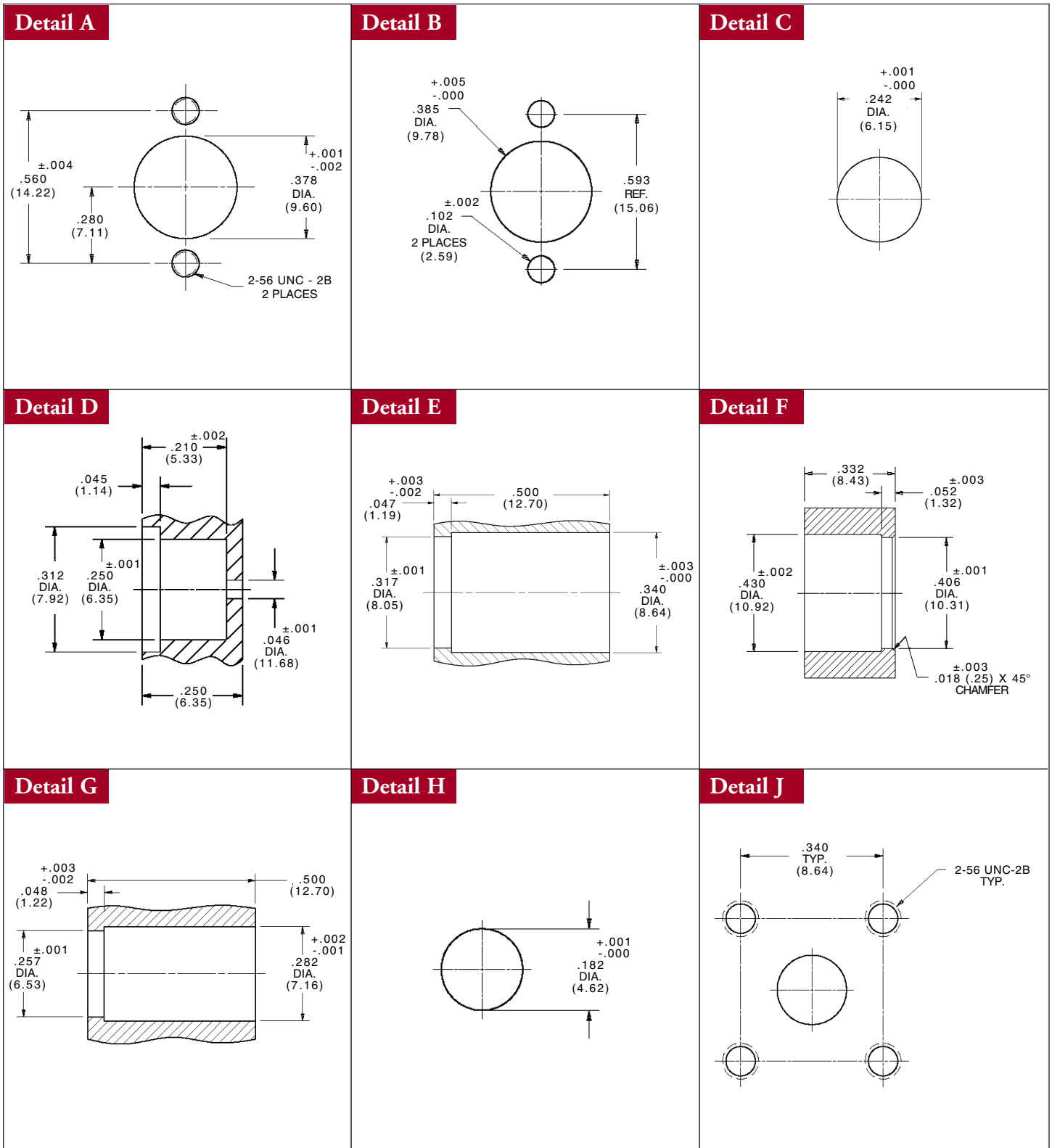
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BLINDMATE CONNECTORS • Appendix A

Recommended Mounting Hole Details*



*Consult factory for complete details.

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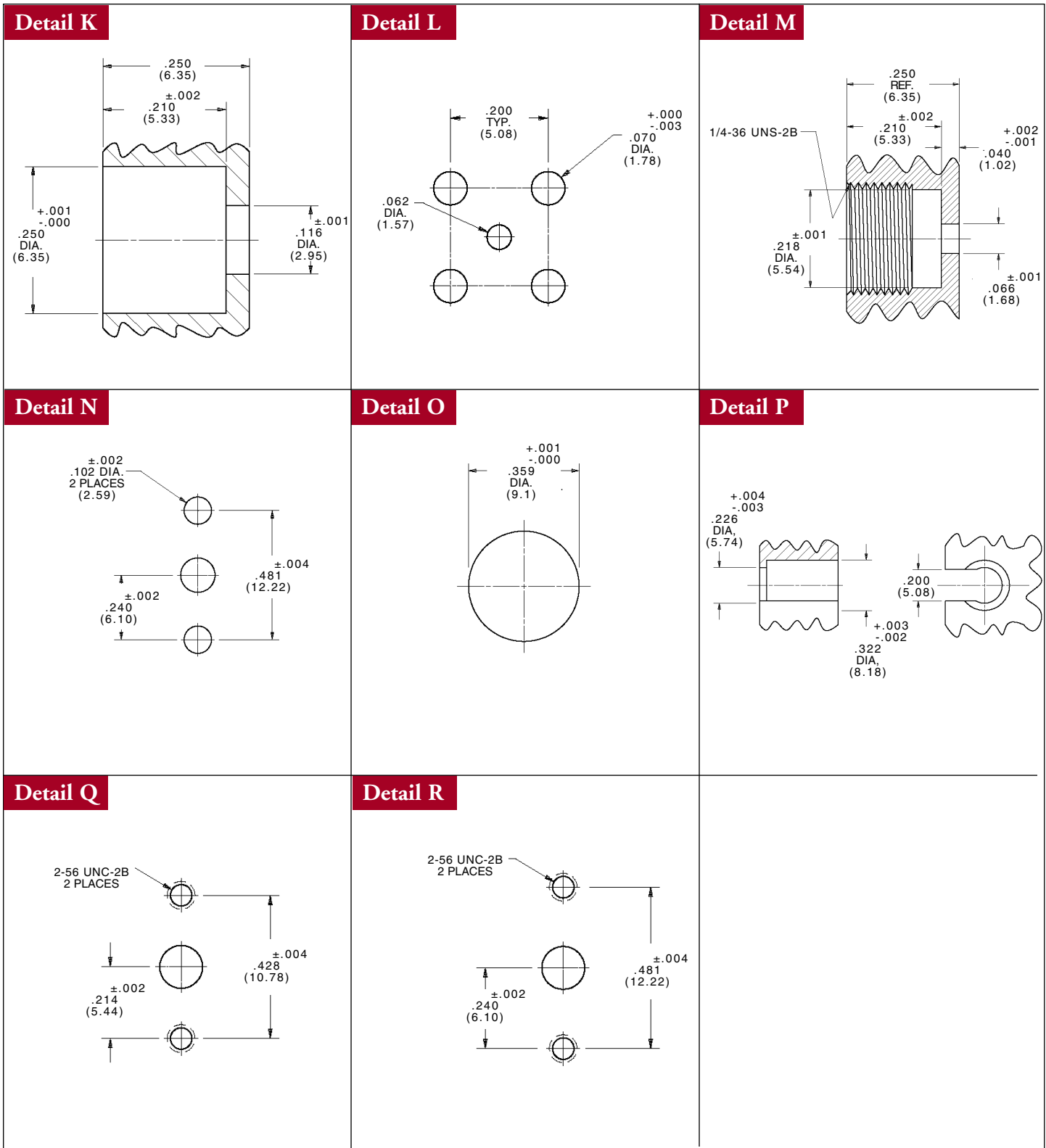
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BLINDMATE CONNECTORS Appendix A

Recommended Mounting Hole Details*



*Consult factory for complete details.

BLINDMATE CONNECTORS AND COMPONENTS

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| | | | |
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| SF1114-6005 | .16 | 1778-6000 | .11 |
| SF1114-6006 | .16 | 1785-0003 | .11 |
| SF1114-6007 | .16 | 1785-6001 | .10 |
| SF1114-6008 | .16 | 1789-6001 | .11 |
| SF1122-6101 | .26 | M31031/01-A5N01 | .9 |
| SF1122-6102 | .26 | M31031/01-A5N02 | .9 |
| SF1122-6106 | .26 | M31031/02-E5N01 | .9 |
| SF1122-6108 | .26 | M31031/02-E5N02 | .9 |
| 1139-6004 | .12 | M31031/11-E5N01 | .8 |
| 1139-6005 | .12 | M31031/11-E5N02 | .8 |
| SF1157-6009 | .12 | M31031/12-E5N01 | .8 |
| SF1158-6001 | .12 | M31031/12-E5N02 | .8 |
| SF1175-6010 | .12 | 500-14-000 | .16 |
| SF1175-6013 | .12 | 500-17-000 | .12 |
| SF1188-6002 | .26 | 500-88-002 | .26 |
| SF1188-6003 | .26 | 500-89-000 | .22 |
| SF1189-6001 | .22 | SF8017-6001 | .12 |
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| 1444-6001 | .15 | SF8820-6001 | .25 |
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| 1708-6003 | .8 | SF8890-6001 | .25 |
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| SF1772-6005 | .10 | 91012ZSP-3 | .20 |
| SF1774-6001 | .10 | 91013ZSP-3 | .20 |

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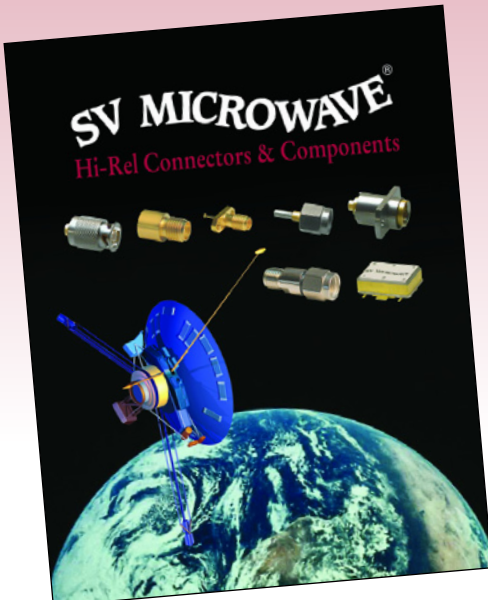
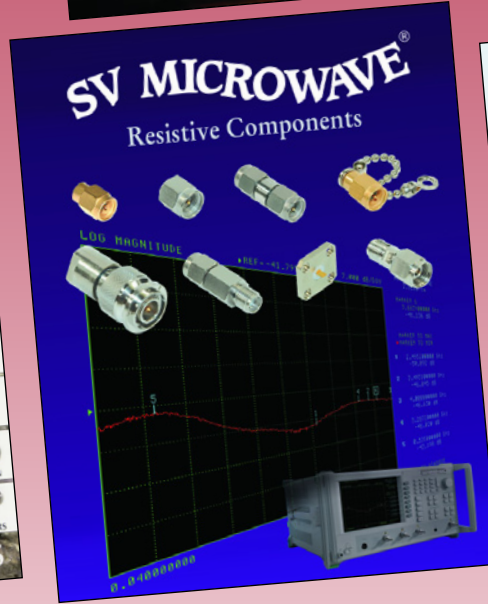
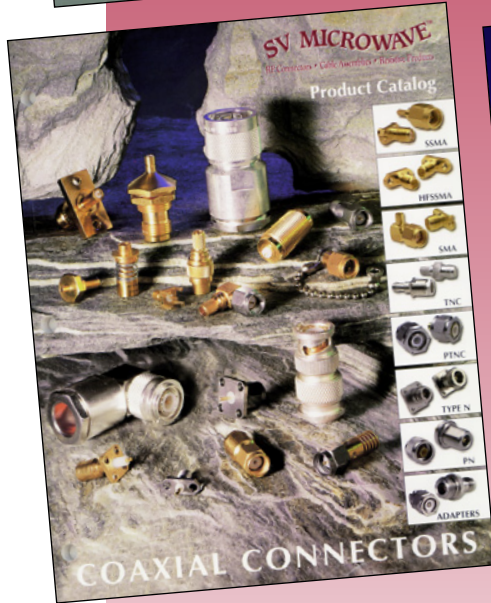
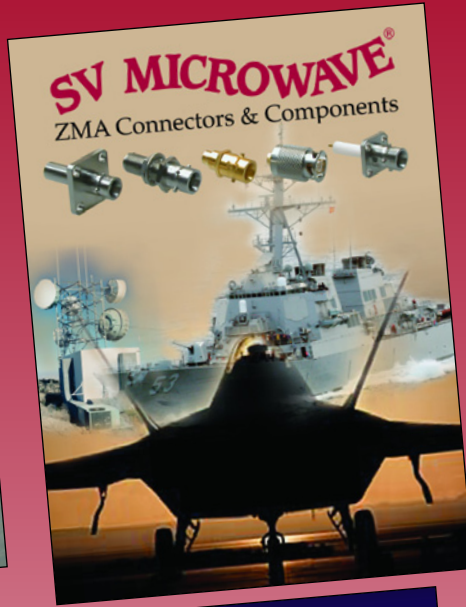
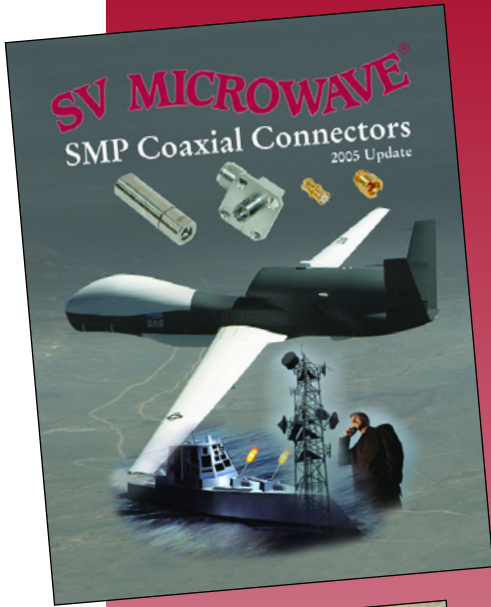
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Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.