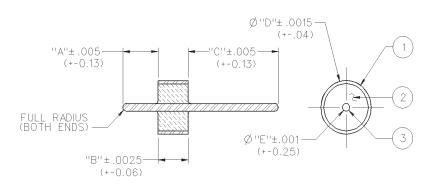
Hermetic Seal Feedthrough



INCHES (MILLIMETERS) CUSTOMER DRAWINGS AVAILABLE UPON REQUEST



Recommended Mounting Hole Detail

| PART NUMBER | ITEM 1 OUTER RING | ITEM 2 INSULATOR | ITEM 3 PIN | "A" | "B" | "C" | "D" | "E" |
|----------------|--|--|---|-------------|--------------|-------------|--------------|------------|
| 142-1000-001 | Kovar Gold pl .00005 min over Nickel pl .000005 min. | Glass Corning 7052 or equivalent | Kovar Gold pl .00005 min over Nickel pl .000005 min | .070 (1.78) | .0625 (1.59) | .180 (4.57) | .0985 (2.50) | .012 (.30) |
| 142-1000-002 | Kovar Gold pl .00005 min over Nickel pl .000005 min. | Glass Corning 7070 or equivalent | Kovar Gold pl .00005 min over Nickel pl .000005 min | .072 (1.83) | .0625 (1.59) | .180 (4.57) | .0985 (2.50) | .015 (.38) |
| 142-1000-003 | Kovar Gold pl .00005 min over Nickel pl .000005 min. | Glass Corning 7070 or equivalent | Kovar Gold pl .00005 min over Nickel pl .000005 min | .072 (1.83) | .0600 (1.52) | .180 (4.57) | .1100 (2.79) | .018 (.46) |
| 142-1000-004 | Kovar Gold pl .00005 min over Nickel pl .000005 min. | Glass Corning 7052 or equivalent | Kovar Gold pl .00005 min over Nickel pl .000005 min | .070 (1.78) | .0600 (1.52) | .203 (5.16) | .1580 (4.01) | .020 (.51) |

Mounting Hole Dimensions

| PART | PIN | | | AIR | TEFLON |
|--------------|-------------|-------------|-------------|-------------|-------------|
| NUMBER | DIAMETER | "F" | "G" | "H" | "H" |
| 142-1000-001 | .012 (0.30) | .063 (1.60) | .102 (2.59) | .028 (0.71) | .039 (0.99) |
| 142-1000-002 | .015 (0.38) | .063 (1.60) | .102 (2.59) | .035 (0.89) | .049 (1.24) |
| 142-1000-003 | .018 (0.46) | .060 (1.52) | .114 (2.90) | .042 (1.07) | .059 (1.50) |
| 142-1000-004 | .020 (0.51) | .060 (1.52) | .162 (4.11) | .046 (1.17) | .065 (1.65) |

Notes:

- The hermetic seal should be mounted as flush as possible with the housing. Excessive recession will create a high impedance air gap which degrades electrical performance.
- The use of an additional counterbore to accommodate a solder ring for seal mounting is not recommended. A slight chamfer may be used if care is taken to completely fill the area with solder - avoid air gaps.
- Dimensions shown are given to achieve 50 Ohms with either air or a teflon insulator. A teflon insulator may be helpful in supporting small pin diameters.

Electrical:

Impedance: 50 Ohms Frequency Range: DC to 26.5 GHz VSWR: Dependent upon application Working Voltage: 250 Vrms max at sea level Dielectric Withstanding Voltage: 500 Vrms min at sea level Insulation Resistance: 5000 Megohm min Insertion Loss: .015F dB max (F in GHz)

Environmental:

Hermeticity: 1x10⁻⁸ cc/sec at one atmosphere Solderability: MIL-STD-202, Method 209 Operating Temperature: -55° C to 165° C

SMA - 50 Ohm Connectors

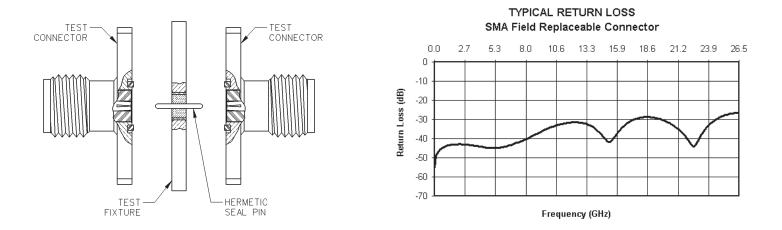


Field Replaceable - Application Notes

The field replaceable style of connector is known by many names in the industry, such as MIC launcher, hermetic seal launcher, spark plug launcher, etc. Some types, such as those known as "spark plugs", have the hermetic seal incorporated into the connector. These types require special welding to install and can not be replaced without destroying the hermeticity of the circuit housing. True field replaceable connectors, such as those manufactured by Johnson Components[™], are easy to install and replace. Because the hermetic seal is not incorporated into the connector design, the connector can be removed and replaced without destroying the hermetic seal or the hermeticity of the circuit housing.

All of the above mentioned connector types perform the same basic function - creating a transition from microstrip circuitry to a coaxial transmission line. Whenever possible, the hermetic seal pin diameter should be chosen as close as possible to the microstrip trace width. For optimum electrical performance, the transition from the hermetic seal to the microstrip trace must be properly compensated. Compensation involves adjusting the microstrip trace width to minimize any impedance discontinuities found in the transition area.

The plot shown below is representative of the typical return loss of an Johnson Components[™] field replaceable connector. To produce the data shown below, a test fixture is created using the appropriate Johnson Components[™] hermetic seal. The fixture consists of a suitably thick spacer plate with the hermetic seal mounted flush to both surfaces. Two connectors are mounted back to back around the fixture and the VSWR of this test assembly is measured. The return loss data shown is equivalent to the square root of the measured VSWR of the test assembly. Since the connectors tested are of identical design, it can be stated with fair accuracy that the data shown represents the response of a single field replaceable connector and its transition to the hermetic seal.



Although Johnson Components[™] does not publish a VSWR specification for field replaceable connectors, typical connector VSWR can be expected to be less than 1.1 + .01f (f in GHz). A VSWR specification is not stated because an industry standard method for tes ting field replaceable connectors does not exist. The actual performance of the connector is dependent upon the application for the following reasons:

- 1. The choice of hermetic seal to be used by the customer is not specified by the connector manufacturer. Hermetic seals produced by different manufacturers will not have the same electrical characteristics. For optimum electrical performance, Johnson Components[™] recommends the use of our standard 142-1000-001, 002, 003 and 004 hermetic seals for pin diameters of .012 (0.30), .015 (0.38), .018 (0.46) and .020 (0.51). Custom hermetic seal configurations can be quoted.
- 2. It is recommended that the hermetic seal be mounted flush with the circuit housing. Tolerance variations between the hermetic seal and machined housing do not always guarantee an optimum transition to the connector. Some manufacturers recommend an additional counterbore in the circuit housing to accommodate a solder washer during installation of the seal. Johnson Components[™] does not recommend this type of installation because if the counterbore is not completely filled with solder, electrical discontinuities may be created.
- 3. The transition between the hermetic seal pin and the microstrip trace will affect electrical performance, as stated above. Several different methods of hermetic seal mounting and seal pin to microstrip trace attachment are used in the industry. Johnson Components[™] can not recommend one method over the other as this is dependent upon the customer's application.

As always, quotes for non-standard field replaceable connectors and/or hermetic seals are welcome.

SMA - 50 Ohm Connectors

Specifications

FO 1



INCHES (MILLIMETERS) CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

ELECTRICAL RATINGS

| Impedance: 50 ohms | | | |
|---|--|--|---|
| Frequency Range: | | | |
| Dummy loads | | 0-2 Gł | Ηz |
| Flexible cable connectors | | | |
| Uncabled receptacles, RA | | s 0-18.0 GH | Ηz |
| Straight semi-rigid cable o | onnectors and | | |
| field replaceable connecto | ors | 0-26.5 Gł | Ηz |
| VSWR: (f = GHz) | Straight | Right Angle | |
| | Cabled Connectors | | ors |
| RG-178 cable | | 1.20 + .03f | |
| RG-316, LMR-100 cable | | 1.15 + .03f | |
| RG-58, LMR-195 cable | | 1.15 + .02f | |
| RG-142 cable | | 1.15 + .02f | |
| LMR-200, LMR-240 cable | | 1.10 + .06f | |
| .086 semi-rigid | | 1.18 + .015f | |
| .141 semi-rigid (w/contact) | | 1.15 + .015f | |
| .141 semi-rigid (w/o contact) | | 4.05 | 045 |
| Jack-bulkhead jack adapter | and plug-plug adapter | 1.05 + .0 | |
| Jack-jack adapter and plug-j | | | |
| Uncabled receptacles, dumr Field replaceable (see page | | | |
| Working Voltage: (Vrms ma | | r | N/A |
| working vollage. (vinis ind | | | |
| | | Soalovol 70K Ec | oot |
| Connectors for Cable Type | | Sea Level 70K Fe | <u>et</u> |
| Connectors for Cable Type RG-178 | 2 | 170 45 | <u>eet</u> |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 | <u>2</u> | 170 45 | <u>eet</u> |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 | 2 00 | 170 45 250 65 | eet |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 | 00 00 0, .086 semi-rigid, 11 semi-rigid w/o contac | 170 45 250 65 t 335 85 | <u>eet</u> |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contain | 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters | 170 45 250 65 t 335 85 500 125 | |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads | 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters | 170 45 250 65 t 335 85 500 125 | |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 | 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo | 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 | 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contai Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl | 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 G-142, LMR-240, .086 se ed receptacles | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 750 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- | 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 G-142, LMR-240, .086 se rigid with contact and ac | 170 45 250 65 t 335 85 500 125 N a at sea level) | /A 500 750 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contai Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl | 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 G-142, LMR-240, .086 se rigid with contact and ac | 170 45 250 65 t 335 85 500 125 N a at sea level) | /A 500 750 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi- | 00 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters 11tage: (VRMS minimum MR-100, 195, 200 G-142, LMR-240, .086 se red receptacles rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet) | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 750 900 500 500 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-58, RC field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 | 00 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 MR-100, 195, 200 -142, LMR-240, .086 se ed receptacles rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet) | 170 45 250 65 t 335 85 500 125 N at sea level) 5 | /A 500 500 500 J/A 25 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contai Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L | 00 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 MR-100, 195, 200 rigid with contact and ac rigid with contact, dumm um at 70,000 feet) MR-100, 195, 200 | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 500 500 J/A 25 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L | 2 00 00 0, .086 semi-rigid, 11 semi-rigid w/o contac ct and adapters 11tage: (VRMS minimum MR-100, 195, 200 | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 750 000 500 N/A 25 90 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-38, RO uncabled receptacles, .14 | 00 00 0, .086 semi-rigid, 1 semi-rigid w/o contact ct and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se ed receptacles rigid with contact and act rigid w/o contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se 1 semi-rigid w/o contact | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 500 500 500 500 1/A 25 90 250 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contai Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-38, RO uncabled receptacles, .14 Connectors for .141 semi- | 00 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se 1 semi-rigid w/o contact rigid with contact and ac | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 50 50 50 50 50 75 |
| Connectors for Cable Type RG-178 RG-316; LMR-100, 195, 2 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with conta Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; L Connectors for RG-58, RO field replaceable, uncabl Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; L Connectors for RG-316; L Connectors for RG-38, RO uncabled receptacles, .14 | 00 00 0, .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se 1 semi-rigid w/o contact rigid with contact and ac | 170 45 250 65 t 335 85 500 125 N at sea level) | /A 500 50 50 50 50 50 75 |

| Insertion Loss: (dB maximum) Straight flexible cable connectors and adapters | $\sqrt{f(GHz)}$, test $\sqrt{f(GHz)}$, test | |
|--|---|----------------------|
| Straight semi-rigid cable connectors with contact 0.03 | \sqrt{f} (GHz), test | ted at 10 GHz |
| Right angle semi-rigid cable connectors 0.05 | \sqrt{f} (GHz), test | ted at 10 GHz |
| Straight semi-rigid cable connectors w/o contact 0.03 | \sqrt{f} (GHz), test | ted at 16 GHz |
| Straight low loss flexible cable connectors | \sqrt{f} (GHz), test | ted at 1 GHz |
| Right Angle low loss flexible cable connectors 0.15 | \sqrt{f} (GHz), test | ted at 1 GHz |
| Uncabled receptacles, field replace Insulation Resistance: 5000 mego | bms minimum | 0ausN/A |
| Contact Resistance: (milliohms ma | | After Environmental |
| Center contact (straight cabled con | | Antor Environmental |
| and uncabled receptacles) | | 4.0* |
| Center contact (right angle cabled | | |
| connectors and adapters) | | 6.0 |
| Field replaceable connectors | | 8.0 |
| Outer contact (all connectors) | | N/A |
| Braid to body (gold plated connecto | rs)0.5 | N/A |
| Braid to body (nickel plated connect | | N/A |
| *N/A where the cable center conduct | tor is used as a | a contact |
| RF Leakage: (dB minimum, tested a | at 2.5 GHz) | |
| Flexible cable connectors, adapte | ers and .141 ser | ni-rigid |
| connectors w/o contact | | |
| Field replaceable w/o EMI gasket | | 70 dB |
| .086 semi-rigid connectors and .1 | 41 semi-rigid co | onnectors |
| with contact, and field replaceab | | |
| Two-way adapters | | 90 dB |
| Uncabled receptacles, dummy loa | | |
| RF High Potential Withstanding | Voltage: (Vrms | minimum, tested at 4 |
| and 7 MHz) | | |
| Connectors for RG-178 | | |
| Connectors for RG-316; LMR-100 | | |
| Connectors for RG-58, RG-142, L | | |
| .141 semi-rigid cable w/o contac | | |
| Connectors for .141 semi-rigid with | | |
| Power Rating (Dummy Load): 0.5 +125°C | $wall (w + 25^{\circ}C)$ | |
| . 120 0 | | |

MECHANICAL RATINGS

| Engagement Design: MIL-C-39012, Series SMA Engagement/Disengagement Force: 2 inch-pounds maximum Mating Torque: 7 to 10 inch-pounds |
|---|
| Bulkhead Mounting Nut Torque: 15 inch-pounds |
| Coupling Proof Torque: 15 inch-pounds minimum |
| Coupling Nut Retention: 60 pounds minimum |
| Contact Retention: |
| 6 lbs. minimum axial force (captivated contacts) 4 inch-ounce minimum torque (uncabled receptacles) |

| Cable Retention: | Axial Force*(lbs) | Torque <u>(in-oz)</u> |
|-----------------------------------|-------------------|-----------------------|
| Connectors for RG-178 | 10 | N/A |
| Connectors for RG-316, LMR-100 |) 20 | N/A |
| Connectors for LMR-195, 200 | 30 | N/A |
| Connectors for RG-58, LMR-240 | 40 | N/A |
| Connectors for RG-142 | 45 | N/A |
| Connectors for .086 semi-rigid | 30 | 16 |
| Connectors for .141 semi-rigid | 60 | 55 |
| *Or cable breaking strength which | never is less. | |
| Durability: 500 cycles minimum | | |
| | | |

100 cycles minimum for .141 semi-rigid connectors w/o contact

ENVIRONMENTAL RATINGS (Meets or exceed the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C Thermal Shock: MIL-STD-202, Method 107, Condition B Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I Vibration: MIL-STD-202, Method 204, Condition D Moisture Resistance: MIL-STD-202, Method 106

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

SMA - 50 Ohm Connectors

Specifications



MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290 **Contacts:** Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

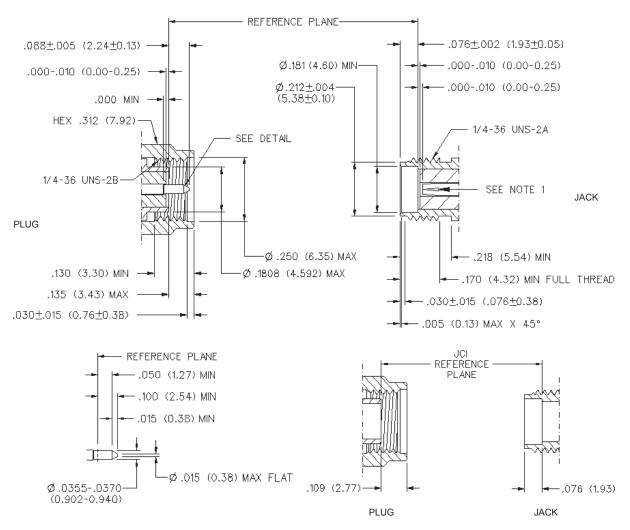
Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or Tefzel per ASTM D 3159 or PFA 340 per ASTM Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290 Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290 Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290 Seal Rings: Silicone rubber per ZZ-R-765

EMI Gaskets: Conductive silicone rubber per MIL-G-83528, Type M

* All gold plated parts include a .00005" min. nickel underplate barrier layer.



Mating Engagement for SMA Series per MIL-C-39012

NOTES

1. ID OF CONTACT TO MEET VSWR, CONTACT RESISTANCE AND INSERTION WITHDRAWAL FORCES WHEN MATED WITH DIA .0355-.0370 MALE PIN.

Cinch Connectivity Solutions

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 6002-7051-003
 6002-7551-202
 6059674-1
 619550-1
 630059-000
 M39030/3-01N
 6500-7071

 046
 6769
 CX050L2AQ
 7002-1541-010
 7002-1542-011
 7004-1512-000
 7009-1511-004
 7010-1511-000
 7029-1511-060
 7101-1541-010

 7101-1571-002
 7145-1521-002
 7203-1571-003
 7209-1511-011
 7210-1511-015
 7210-1511-019
 73137-5015
 73216-2241
 73404-2300
 7405

 1521-005
 7405-1521-802
 8527
 8547
 FS11V
 877931
 9049-9513-000
 9074-9513-002
 9101-9573-002
 910A205F
 9130-9573-002
 PL11SC

 026
 PL375-33
 PL40-5
 PL74C-221
 PL75MC-217
 PL803-7
 980-8666-005
 1200690078
 1-201144-1
 R107003010W
 R110A172100