

BMA Jack Hermetically Sealed Connector Stub Terminal Solder Attachment

BMA jack hermetically sealed connector with solder attachment stub terminal, part number FMCN1234, from Fairview Microwave is in-stock and ships same day. This BMA jack connector operates up to a maximum frequency of 22 GHz and offers excellent VSWR of 1.25:1. This blind mate connector is ideal for applications without direct visual or tactile access to the connection point, for example, when two circuit boards need to be mated.

Fairview's BMA jack connector FMCN1234 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|------------------------|-------|-----|--------|-------|
| Frequency Range | DC | | 22 | GHz |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | | 0.32 | dB |
| Operating Voltage (AC) | | | 500 | Vrms |
| DWV (AC) | | | 1,500 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

| | |
|---------------|--------------------|
| Size | |
| Length | 0.55 in [13.97 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.01 lbs [4.54 g] |
| Mating Cycles | 1,000 Cycles |

Material Specifications

| Description | Material | Plating |
|-----------------|----------------------------|----------------------------|
| Contact | Beryllium Copper | Gold 51.18μ in. minimum |
| Insulation | PTFE | |
| Outer Conductor | Beryllium Copper | Gold |
| Body | Passivated Stainless Steel | |
| Coupling Nut | Passivated Stainless Steel | |



Configuration:

- BMA Jack Connector
- 50 Ohms
- Straight Body Geometry
- Stub Interface Type
- Solder Attachment

Features:

- Operating Frequency of 22 GHz Max.
- Excellent VSWR of 1.25:1
- Blind Mate Connector
- Hermetically Sealed
- Gold Plated Beryllium Copper Contact
- 51.18μ in. minimum contact plating
- Low-Engagement Force

Applications:

- General Purpose Test
- Phased Array Systems
- Blind Mating
- RF Backplanes
- Rack and Panel
- Base Stations
- Test I/O

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Environmental Specifications

Temperature

| | |
|-----------------|---------------------------------------|
| Operating Range | -65 to +165 deg C |
| Hermetic Seal | 1E-6 atm. cm ³ /s (Helium) |

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

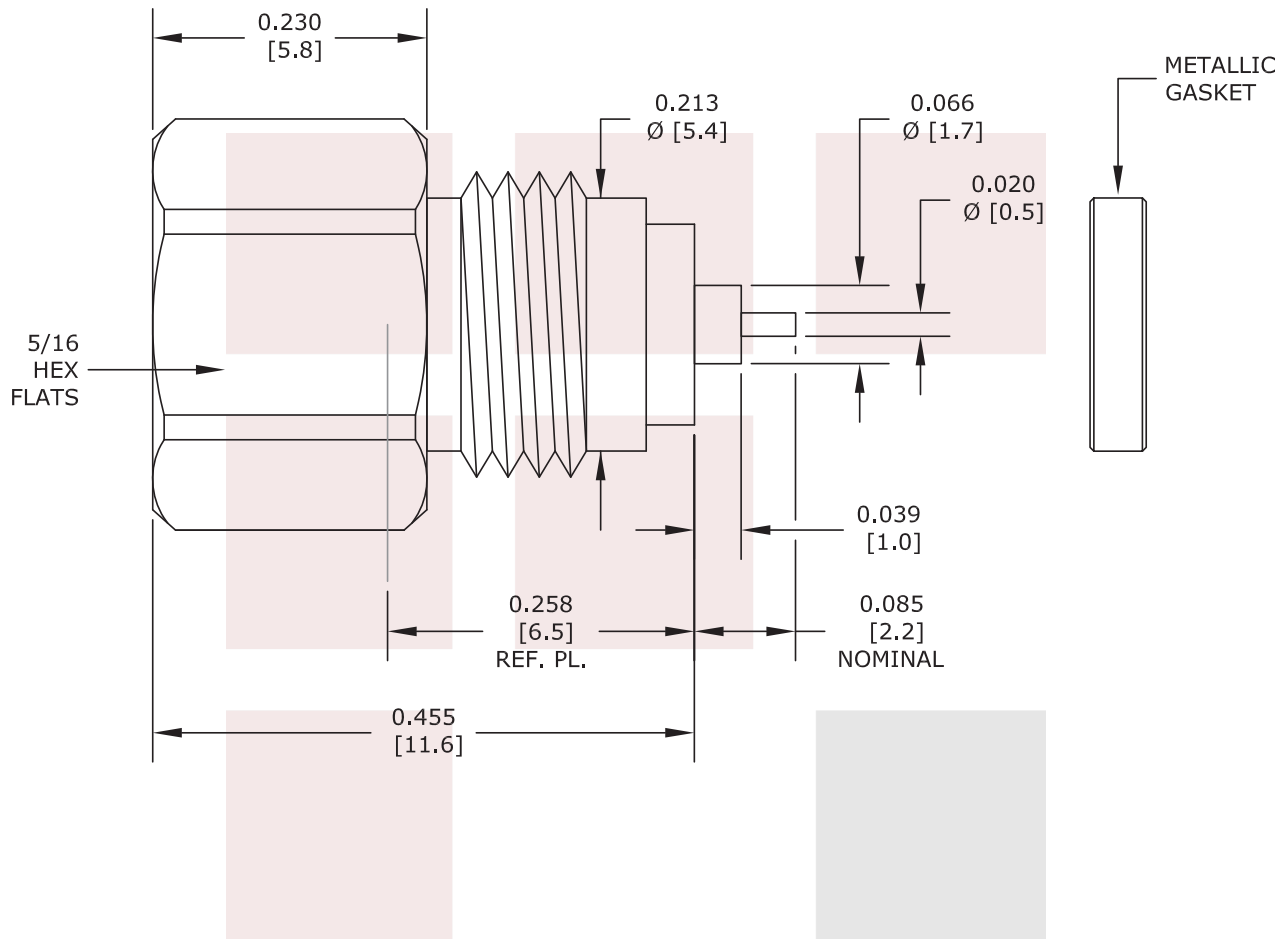
Notes:

BMA Jack Hermetically Sealed Connector Stub Terminal Solder Attachment from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [BMA Jack Hermetically Sealed Connector Stub Terminal Solder Attachment FMCN1234](#)

URL: <https://www.fairviewmicrowave.com/bma-jack-stub-terminal-connector-fmcn1234-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

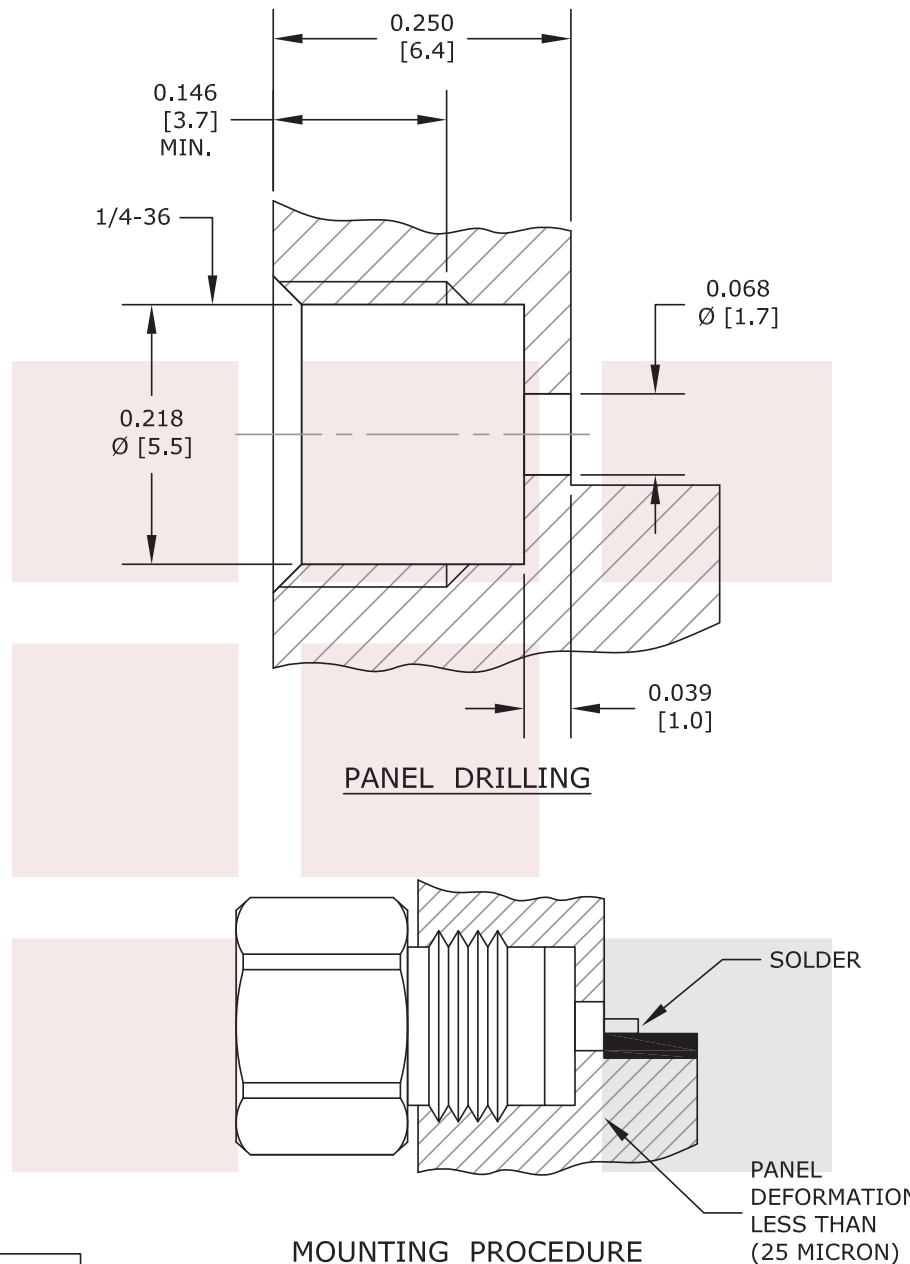
*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE
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Terminal Solder Attachment

| | | | | | | | |
|----------|--------|----------|--|-----------|-----|-------|--------|
| DWG NO | | FMCN1234 | | CAGE CODE | | 3FKR5 | |
| CAD FILE | 020917 | SHEET | | SCALE | N/A | SIZE | A 2233 |



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

1. Assemble metal gasket onto connector.
2. Tighten the connector up to 280 Ncm torque (19.47 Lbs. In)
3. Thus the connection hermeticity is guaranteed at 1. 10-5 atm.cm3/sec. Then solder the pin.

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