

**SSMC Jack Connector Clamp/Solder Attachment For
RG405, RG405 Tinned, .086 SR Cable**

SSMC jack connector with clamp/solder attachment for RG405, RG405 Tinned and .086 SR, part number FMCN1255, from Fairview Microwave is in-stock and ships same day. This SSMC jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.38:1.

Fairview's SSMC jack connector FMCN1255 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 | | 12.4 | GHz |
| VSWR | | | 1.38:1 | |
| Insertion Loss | | | 0.3 | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| High Potential Voltage 5 MHz | | | 400 | Vrms |
| Inner Cond. DC Resistance | | | 4 | mOhms |
| Outer Cond. DC Resistance | | | 1 | mOhms |
| Insulation Resistance | 1,000 | | | MOhms |
| RF Leakage | -50 | | | dB |

Mechanical Specifications

| Size | |
|---------------|------------------------------------|
| Length | 0.55 in [13.97 mm] |
| Width/Dia. | 0.156 in [3.96 mm] |
| Weight | 0.0065 lbs [2.95 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 1.75 to 2 in-lbs [0.20 to 0.23 Nm] |

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|---------------------|
| Contact | Beryllium Copper | Gold MIL-G-45204 |
| Insulation | Teflon | |
| Outer Conductor | Beryllium Copper | Gold MIL-G-45204 |
| Body | Beryllium Copper | Gold MIL-G-45204 |



Configuration:

- SSMC Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Clamp/Solder Attachment

Features:

- Operating Frequency of 12.4 GHz Max.
- Good VSWR of 1.38:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Small SSMC connector form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

Applications:

- General Purpose Test
- Custom Cable Assemblies
- Software defined radio (SDR)
- Avionics
- A/D Modules
- Ultra Wideband Digital Receivers

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| | | |
|--------|-----------------|-------------|
| Washer | Phosphor Bronze | Gold |
| | | MIL-G-45204 |

Environmental Specifications

Temperature

| | |
|-----------------|---|
| Operating Range | -65 to +165 deg C |
| Shock | Method 213, Condition B, 75G @6ms @1/2 sine |
| Vibration | Method 204, Condition D (20G) |
| Salt Spray | Method 101, Condition B, 5% salt solution |

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

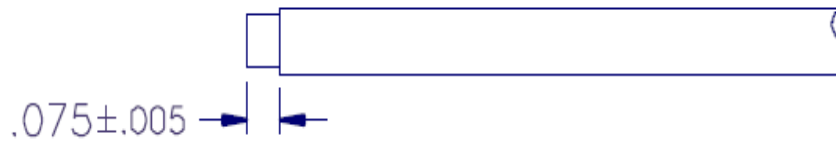
Plotted and Other Data

Notes:

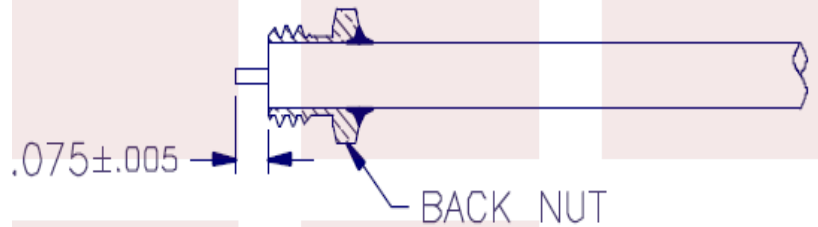


Assembly Instruction

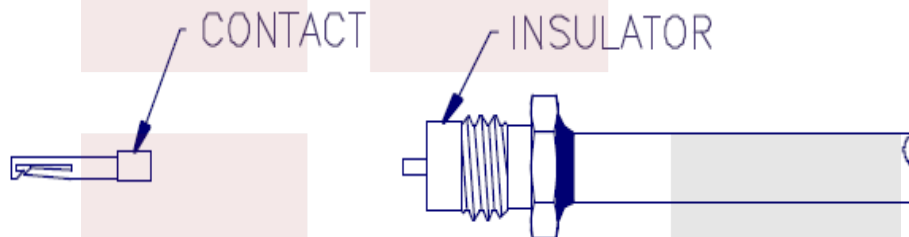
Assembly Instructions



1. TRIM CABLE JACKET ONLY, AS SHOWN ABOVE.



2. SLIDE BACK NUT ONTO CABLE UNTIL TRIMMED END OF JACKET IS FLUSH WITH FRONT OF NUT. SOLDER NUT TO CABLE.
3. TRIM DIELECTRIC AS SHOWN.



4. INSTALL INSULATOR OVER CABLE CENTER CONDUCTOR.
5. SOLDER CONTACT TO CENTER CONDUCTOR.
6. INSERT CABLE ASSEMBLY INTO CONNECTOR BODY AND TIGHTEN TO 35-45 INCH-OUNCES TORQUE.

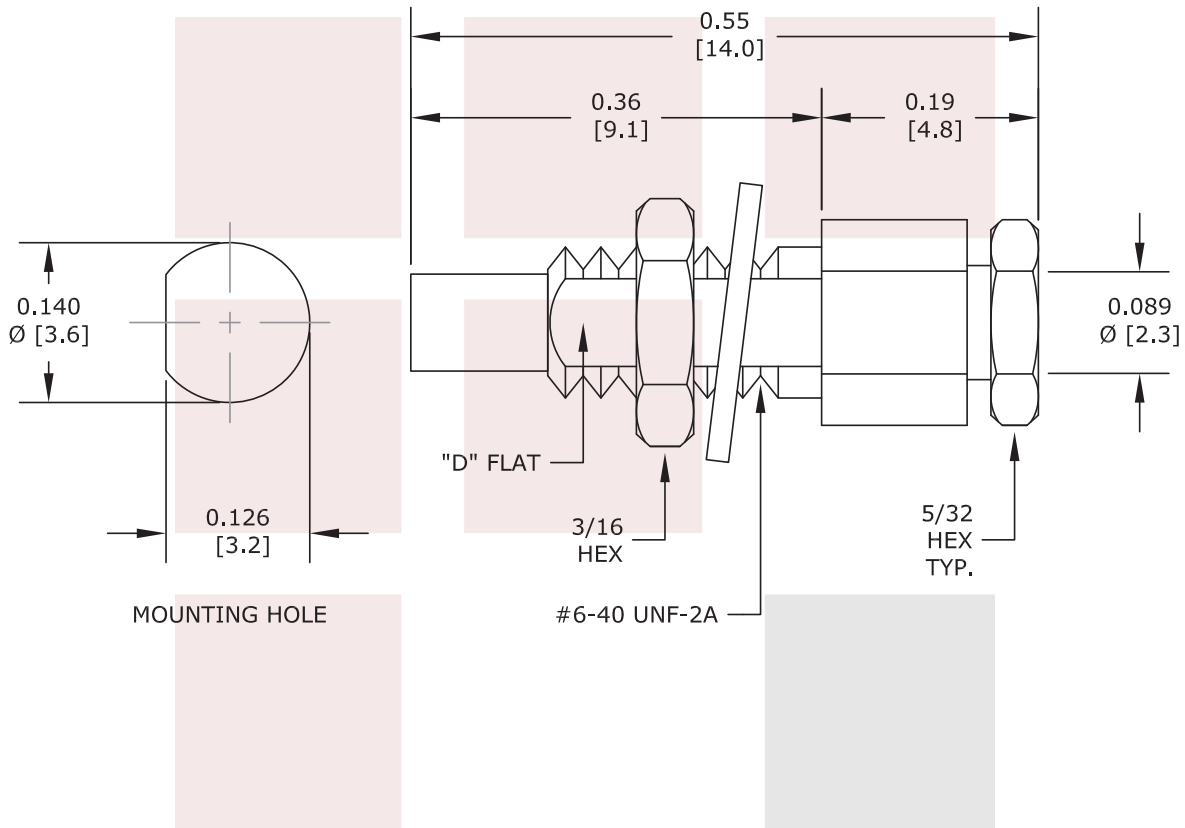
SSMC Jack Connector Clamp/Solder Attachment For RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SSMC Jack Connector Clamp/Solder Attachment For RG405, RG405 Tinned, .086 SR Cable FMCN1255](#)

URL: <https://www.fairviewmicrowave.com/ssmc-jack-rg405-rg405-tinned-.086-sr-connector-fmcn1255-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

| | | | | | |
|--|--------|---|-------|--------------------|-------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 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 SSMC Jack Connector Clamp/Solder Attachment For RG405, RG405 Tinned, .086 SR Cable | | DWG NO FMCN1255 | | CAGE CODE 3FKR5 | |
| CAD FILE | 060917 | SHEET | SCALE | N/A | SIZE A 2233 |