



SSMC Jack Bulkhead Mount Connector Crimp/ Solder Attachment for RG-178, RG-196

RF Connectors Technical Data Sheet

PE45493

Configuration

- SSMC Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG-178, RG-196 Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.44:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling
- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Avionics
- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

Description

Pasternack's PE45493 SSMC jack bulkhead connector with crimp/solder attachment for RG-178 and RG-196 is part of our full line of RF components available for same-day shipping. Our SSMC jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.44:1. This SSMC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SSMC jack bulkhead connector PE45493 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 12.4 | GHz |
| VSWR | | | 1.44:1 | |
| Insertion Loss | | | 0.3 | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| High Potential Voltage 5 MHz | | | 400 | Vrms |
| Inner Conductor DC Resistance | | | 4 | mOhms |
| Outer Conductor DC Resistance | | | 1 | mOhms |
| Insulation Resistance | 1,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493](#)



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RF Leakage -50 dB

Mechanical Specifications

Size

Length 0.74 in [18.8 mm]
 Width/Dia. 0.156 in [3.96 mm]

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 |
| Crimp Sleeve | Brass | Gold MIL-G-45204 |
| 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:

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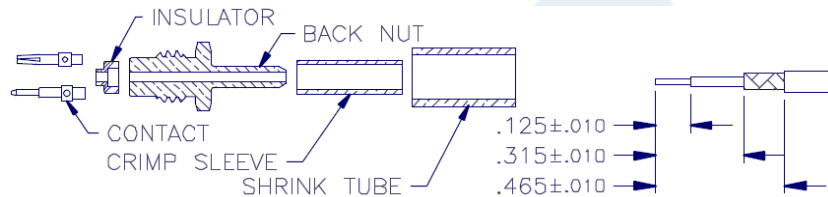
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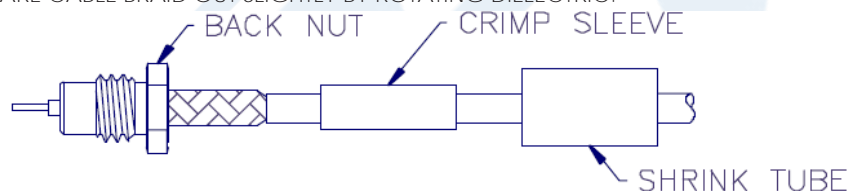
PE45493

Assembly Instruction

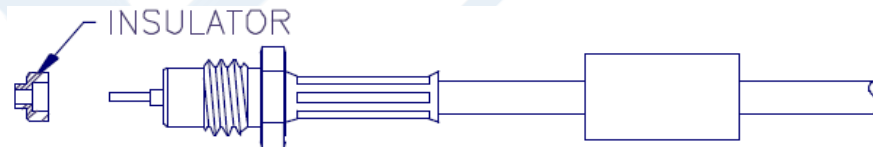
Assembly Instructions



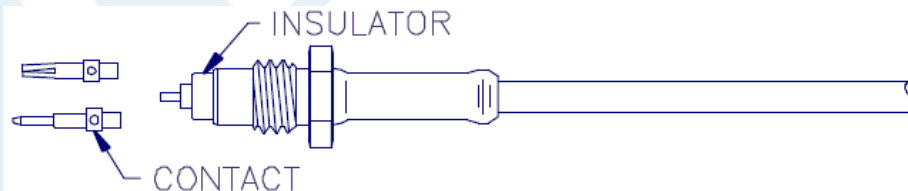
1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



4. INSERT CABLE INTO TAIL-END OF BACK NUT, MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF NUT.
5. SLIDE CRIMP SLEEVE FORWARD AND USE .105 HEX DIE TO CRIMP.



6. POSITION INSULATOR OVER CABLE DIELECTRIC AND CENTER CONDUCTOR.



7. SOLDER CONTACT TO CENTER CONDUCTOR.
8. INSERT CABLE ASSEMBLY INTO BODY AND TIGHTEN NUT WITH A TORQUE WRENCH WITH A TORQUE OF 35-45 INCH-OUNCES.
9. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

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SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

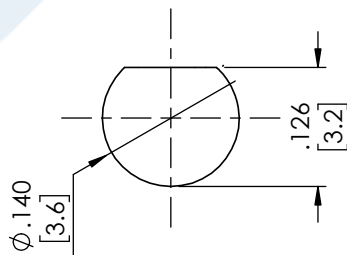
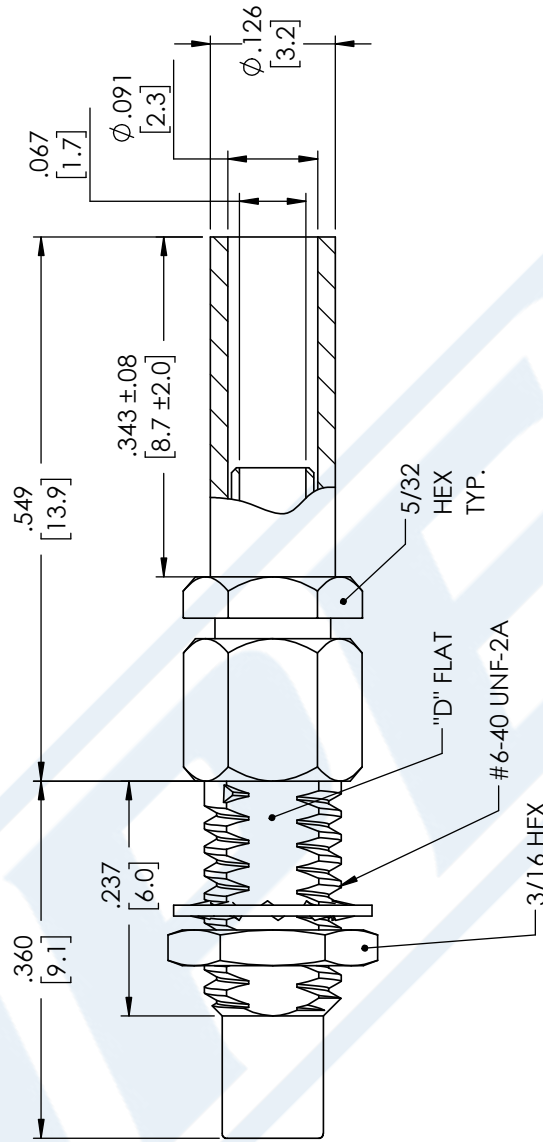
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493](https://www.pasternack.com/ssmc-jack-rg-178-rg-196-connector-pe45493-p.aspx)

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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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE45493 CAD Drawing

SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196



MOUNTING HOLE

STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE45493

CAGE CODE 53919

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].

CAD FILE 08/10/18

SCALE N/A

SIZE A

CN2245