



## SMA Male Right Angle Connector Crimp/ Solder Attachment for M17/93-RG178

### RF Connectors Technical Data Sheet

**M39012/56-3006**

#### Configuration

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: M17/93-RG178
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- QPL Part

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's M39012/56-3006 SMA male connector is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.3:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector M39012/56-3006 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                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 0.53    | dB    |
| Impedance                            |         | 50      |         | Ohms  |
| Dielectric Withstanding Voltage (AC) |         |         | 500     | Vrms  |

#### Mechanical Specifications

|               |                    |
|---------------|--------------------|
| Size          |                    |
| Length        | 0.69 in [17.53 mm] |
| Width         | 0.69 in [17.53 mm] |
| Height        | 0.31 in [7.87 mm]  |
| Weight        | 0.02 lbs [9.07 g]  |
| Mating Cycles | 500 Cycles         |
| Mating Torque | 8 in-lbs [0.90 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Crimp/Solder Attachment for M17/93-RG178 M39012/56-3006](#)



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**Material Specifications**

| Description     | Material                   | Plating |
|-----------------|----------------------------|---------|
| Contact         | Brass                      | Gold    |
| Insulation      | PTFE                       |         |
| Outer Conductor | Passivated Stainless Steel | Gold    |
| Body            | Passivated Stainless Steel | Gold    |
| Coupling Nut    | Passivated Stainless Steel |         |

**Environmental Specifications**

**Temperature**

Operating Range

-65 to +165 deg C

Shock

MIL-STD-202 Method 213 Condition I

Vibration

MIL-STD-202 Method 204 Condition D

Salt Spray

MIL-STD-202 Method 101 Condition B

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

**Plotted and Other Data**

Notes:

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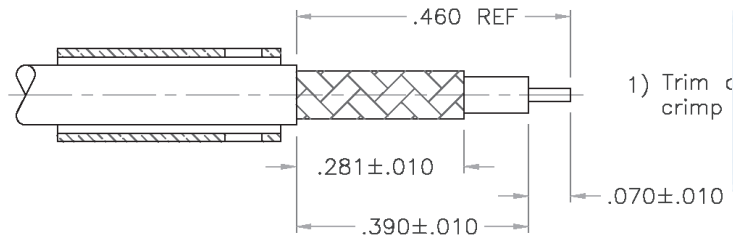


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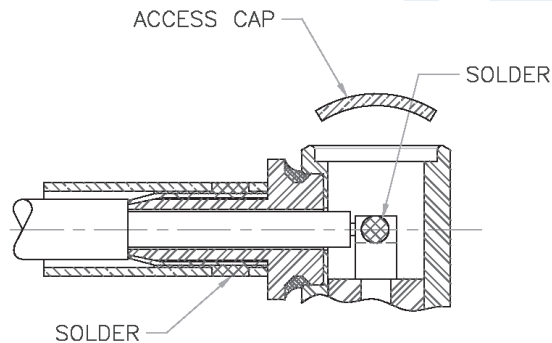
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**Assembly Instruction**



- 1) Trim cable to dimensions shown. Slide crimp sleeve back onto cable.



- 2) Insert prepared cable into rear of body, with all braid wires on outside of crimp tail. Push cable in until the end of braid touches connector body shoulder and center conductor rests in contact slot. Trim excess braid wires even with shoulder of body

Slide solder sleeve forward until flush with body and solder braid and sleeve through solder hole in solder sleeve. Solder center conductor to contact.

Press access cap into body until seated into place.

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SMA Male Right Angle Connector Crimp/Solder Attachment for M17/93-RG178 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: [SMA Male Right Angle Connector Crimp/Solder Attachment for M17/93-RG178 M39012/56-3006](https://www.pasternack.com/sma-male-m17-93-rg178-connector-m39012-56-3006-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.

