



# SMA Male Threaded Connector Clamp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Cable

SMA male connector with clamp/solder attachment for 0.100 inch. RG316. RG174, RG188, LMR-100, LMR-100A and LMR-100A-FR, part number SC7081, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.35:1.

Fairview's SMA male threaded connector SC7081 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	Тур	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.35:1	

## **Mechanical Specifications**

**Size** 

Length 0.73 in [18.54 mm] Width/Dia. 0.312 in [7.92 mm]

0.015 lbs [6.8 g] Weight

7 to 10 in-lbs [0.79 to 1.13 Nm] Mating Torque

### **Material Specifications**

Description	Material	Plating		
Insulation	Teflon			
Outer Conductor	Brass	Gold ASTM B488		
Body	Steel	Passivated		
Coupling Nut	Steel	Passivated		

# **Environmental Specifications**

**Temperature** 

Operating Range -65 to +125 deg C Shock MIL-STD-202, METH. 213 COND

Vibration MIL-STD-202, METH. 204 COND

Altitude MIL-STD-202, METH. 105 COND



## **Configuration:**

- · SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- · 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Interface Type
- Clamp/Solder Attachment
- Threaded

#### Features:

- Operating Frequency of 3 GHz Max.
- Good VSWR of 1.35:1

## **Applications:**

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Thermal Shock

MIL-STD-202, METH. 107 COND B

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

#### **Assembly Instruction**

SMA Male Threaded Connector Clamp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100A, LMR-100A-FR 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: SMA Male Threaded Connector Clamp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Cable SC7081

URL: https://www.fairviewmicrowave.com/sma-male-standard-connector-sc7081-p.aspx

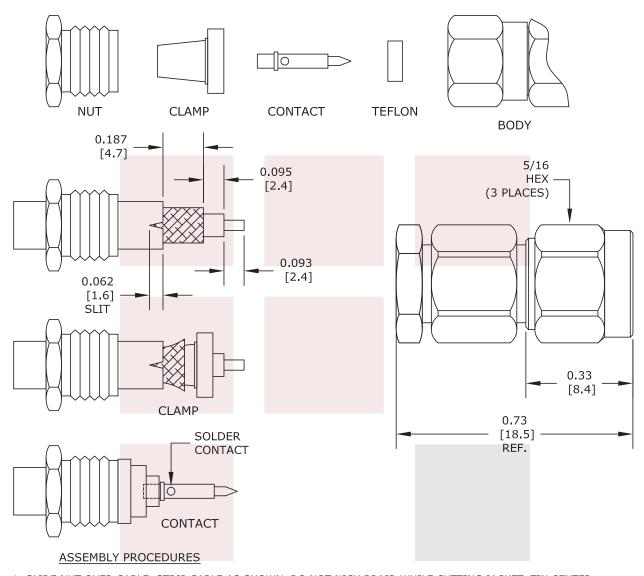
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to 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.

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- 1. SLIDE NUT OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TIN CENTER CONDUCTOR. JACKET MAY BE SLIT TO HELP ENTRY OF CLAMP.
- 2. ROTATE DIELECTRIC TO FLARE BRAID. SLIDE CLAMP OVER DIELECTRIC AND UNDER BRAID UNTIL THE CLAMP STOPS. TRIM EXCESS BRAID TO THE DIAMETER OF THE CLAMP SHOULDER.
- 3. SLIDE CONTACT OVER CENTER CONDUCTOR AND INTO CLAMP INSULATOR UNTIL THE SHOULDER ON THE CONTACT STOPS AGAINST THE CLAMP INSULATOR. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR. SLIDE TEFLON OVER CONTACT AND INSERT THE ASSEMBLY INTO THE REAR OF THE BODY & TIGHTEN.

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].					
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	CAD FILE 062217	SHEET	SCALE	E N/A	SIZE A	2233