

## SMP Female (Jack) Connector For .047 SR Cable Up To 40 GHz, Solder

SMP female connector with solder attachment for .047 SR, part number SC5181, from Fairview Microwave is in-stock and ships same day. This SMP female connector operates up to a maximum frequency of 40 GHz. 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 SMP female connector SC5181 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		40	GHz

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 26.5					GHz
VSWR, Max	1.25:1					

### Mechanical Specifications

<b>Size</b>	
Length	0.262 in [6.65 mm]
Weight	0.01 lbs [4.54 g]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-DTL-45204
Insulation	PEI	
Outer Conductor	Beryllium Copper	Gold
Body	Beryllium Copper	Gold MIL-DTL-45204

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106 (except 7b omitted)
Shock	MIL-STD-202, Method 213, Condition I



### Configuration:

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- .047 SR Interface Type
- Solder Attachment

### Features:

- Operating Frequency of 40 GHz Max.
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-DTL-45204

### Applications:

- General Purpose Test
- Custom Cable Assemblies

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Vibration  
Salt Spray

MIL-STD-202, Method 204, Condition D  
MIL-STD-202, Method 101, Condition B

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

### Plotted and Other Data

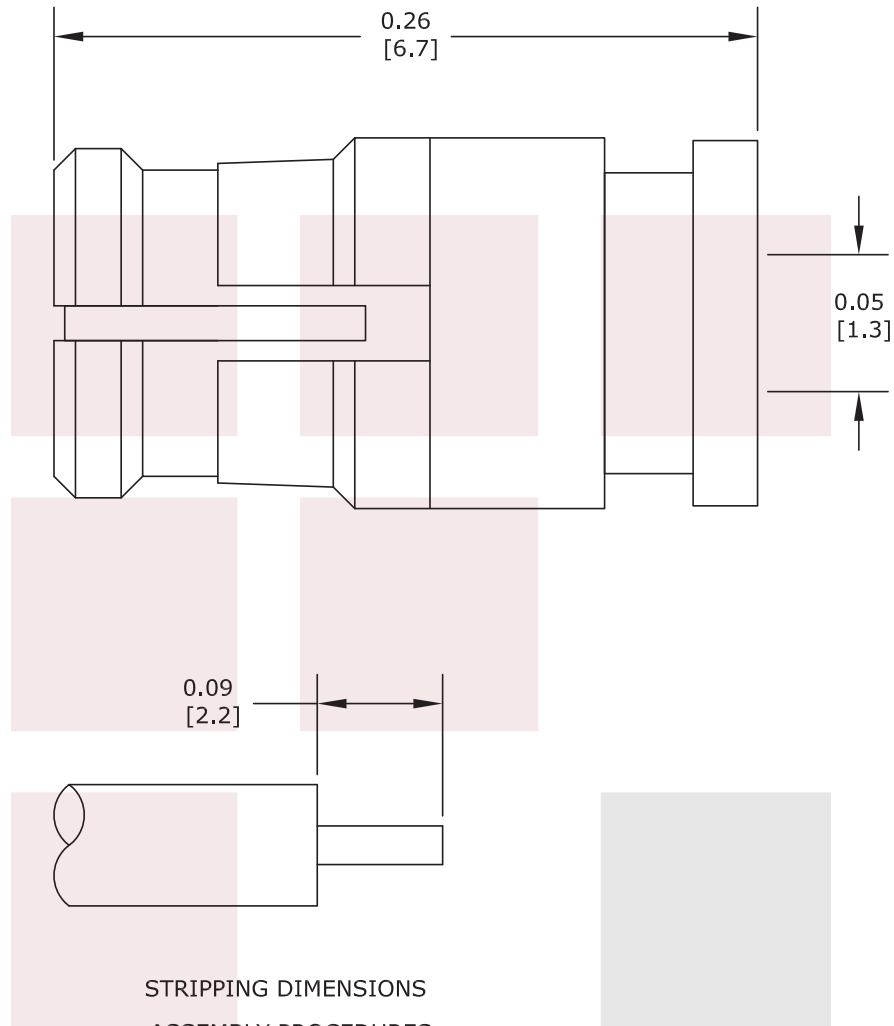
Notes:

SMP Female (Jack) Connector For .047 SR Cable Up To 40 GHz, Solder 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMP Female \(Jack\) Connector For .047 SR Cable Up To 40 GHz, Solder SC5181](#)

URL: <https://www.fairviewmicrowave.com/smp-female-standard-.047-sr-connector-sc5181-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.



- STRIPPING DIMENSIONS**  
**ASSEMBLY PROCEDURES**
1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
  2. SOLDER CONTACT TO CENTER CONDUCTOR.
  3. INSERT CABLE INTO BODY UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

<b>FAIRVIEW MICROWAVE INC.</b> 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 SMP Female (Jack) Connector For .047 SR Cable Up To 40 GHz, Solder	DWG NO SC5181	CAGE CODE 3FKR5			
CAD FILE 081514	SHEET	SCALE N/A	SIZE A	2233	