

## SMP Male Limited Detent PCB Connector Thru Hole Solder Attachment Square Body, Up To 8 GHz

SMP male limited detent connector with solder attachment for thru hole PCB, part number SC5186, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.4:1. 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 male connector SC5186 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		18	GHz
VSWR			1.4:1	
DWV (AC)			500	Vrms
Inner Cond. DC Resistance			6	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

### Mechanical Specifications

<b>Size</b>	
Length	0.279 in [7.09 mm]
Width/Dia.	0.236 in [5.99 mm]
Height	0.236 in [5.99 mm]
Weight	0.0033 lbs [1.5 g]
Mating Cycles	500 Cycles

### Material Specifications

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

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-65 to +165 deg C



### Configuration:

- Limited Detent SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Thru Hole Interface Type
- Solder Attachment

### Features:

- Operating Frequency of 18 GHz Max.
- Good VSWR of 1.4:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-DTL-45204

### Applications:

- General Purpose Test
- PCB Applications

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Humidity	MIL-STD-202, Method 106 (except 7b omitted)
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:

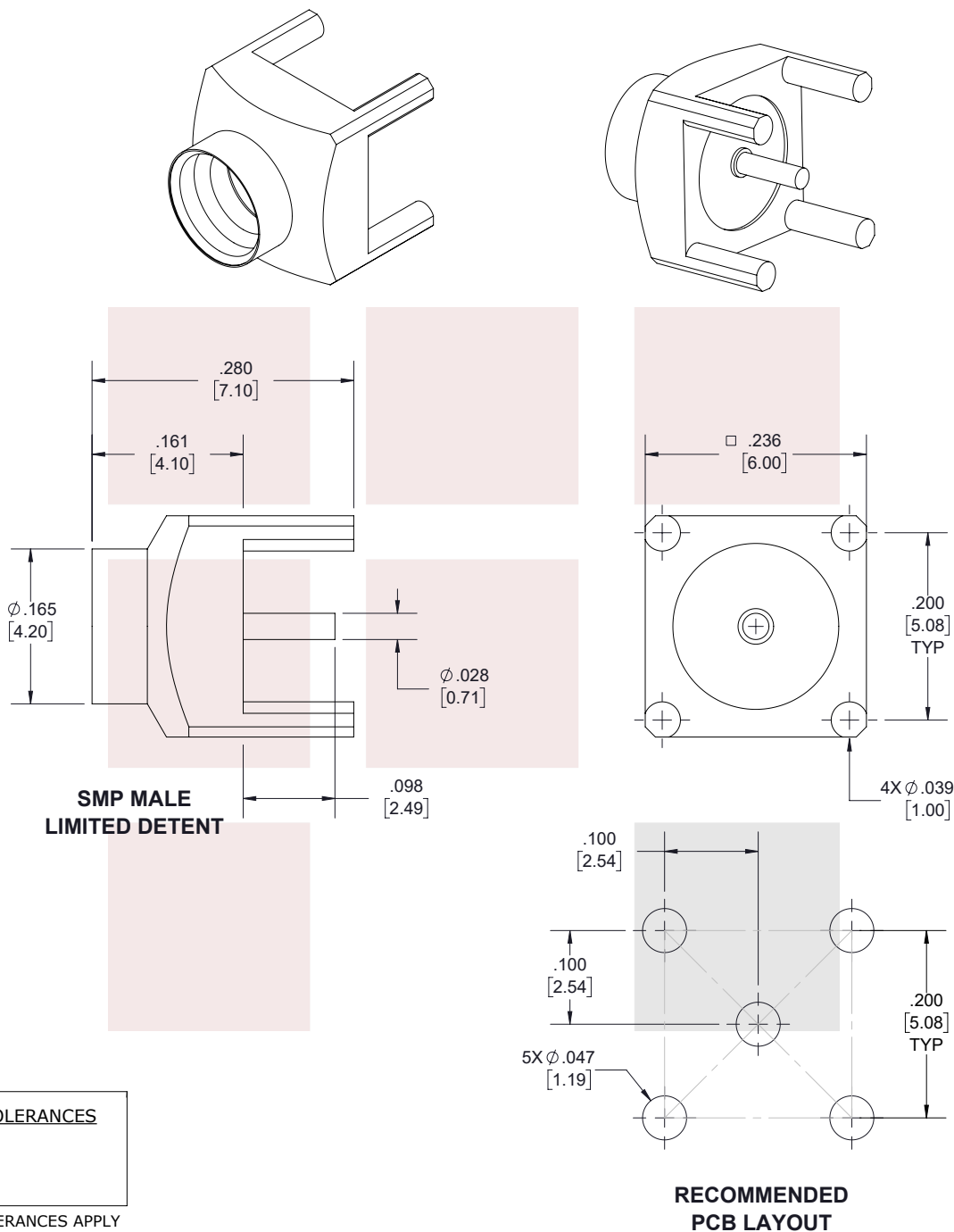
## Assembly Instruction

SMP Male Limited Detent PCB Connector Thru Hole Solder Attachment Square Body, Up To 8 GHz 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: [SMP Male Limited Detent PCB Connector Thru Hole Solder Attachment Square Body, Up To 8 GHz SC5186](#)

URL: <https://www.fairviewmicrowave.com/smp-male-standard-limited-detent-thru-hole-pcb-connector-sc5186-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 ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**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].

<b>Fairview Microwave</b> RF COMPONENTS ON DEMAND. <i>Done!</i>	<b>DWG NO</b> SC5186		<b>CAGE CODE</b> 3FKR5			
	<b>TITLE</b> SMP Male Limited Detent PCB Connector Thru Hole Solder Attachment Square Body, Up To 8 GHz		<b>CAD FILE</b> 06/12/18	<b>SHEET</b> 1 OF 1	<b>SCALE</b> N/A	<b>SIZE</b> A
			7361			