

SMP Male Full Detent PCB Connector Thru Hole Solder Attachment Round Body, Up To 8 GHz

SMP male full detent connector with solder attachment for thru hole PCB, part number SC5185, from Fairview Microwave is in-stock and ships same day. This SMP male 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 male connector SC5185 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
Operating Voltage (AC)			335	Vrms
DWV (AC)			500	Vrms
Inner Cond. DC Resistance			6	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 20					GHz
VSWR, Max	1.3:1					

Mechanical Specifications

Size	
Length	0.295 in [7.49 mm]
Width/Dia.	0.218 in [5.54 mm]
Weight	0.003 lbs [1.36 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Passivated Stainless Steel	



Configuration:

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

Features:

- Operating Frequency of 40 GHz Max.
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- PCB Applications

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Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
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:

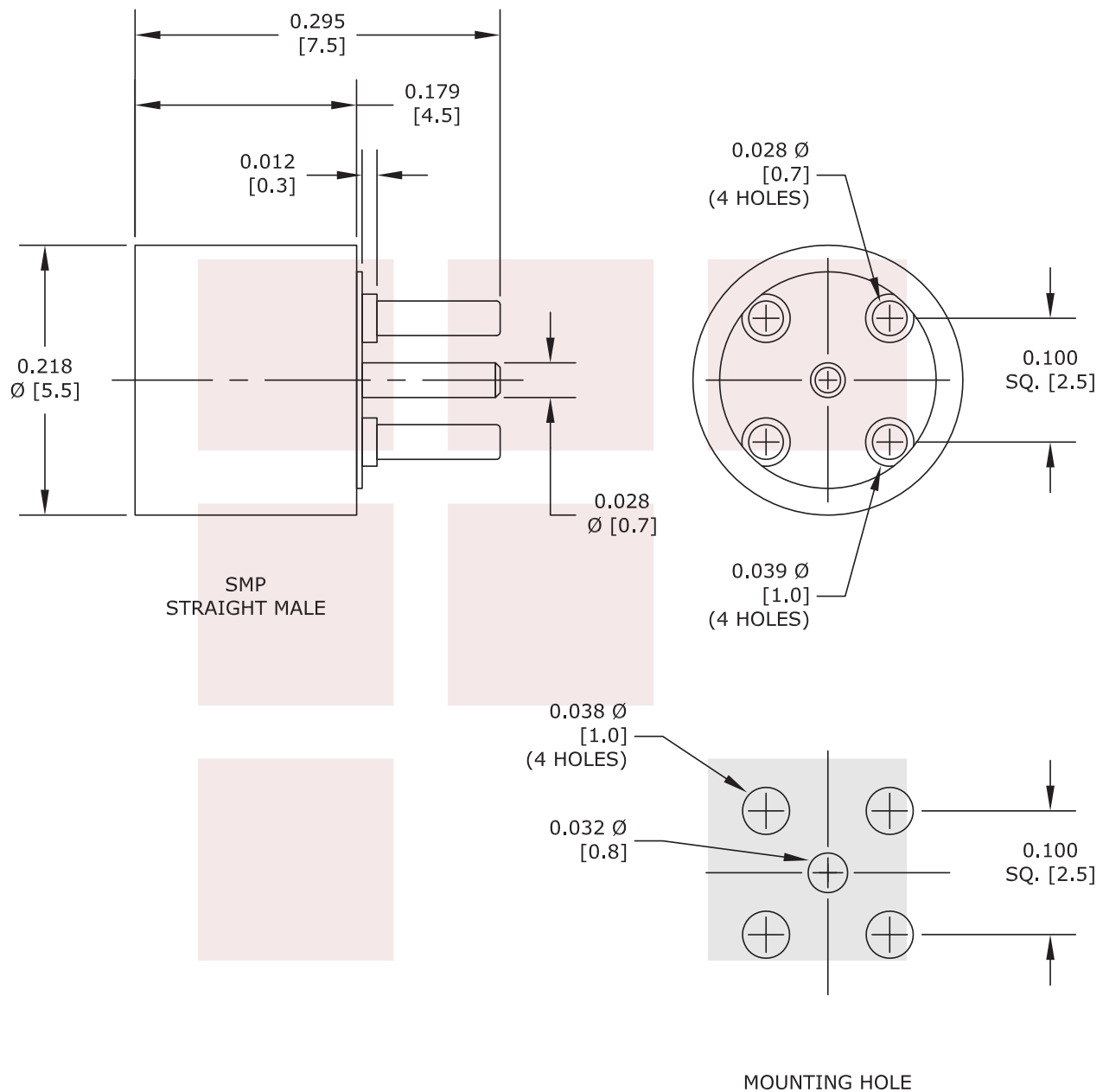
Assembly Instruction

SMP Male Full Detent PCB Connector Thru Hole Solder Attachment Round 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 Full Detent PCB Connector Thru Hole Solder Attachment Round Body, Up To 8 GHz SC5185](#)

URL: <https://www.fairviewmicrowave.com/smp-male-standard-full-detent-thru-hole-pcb-connector-sc5185-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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TITLE SMP Male Full Detent PCB Connector Thru Hole Solder Attachment Round Body, Up To 8 GHz	DWG NO SC5185		CAGE CODE 3FKR5		
	CAD FILE 081514	SHEET	SCALE N/A	SIZE A	2233