

## Mini SMP (SMPM) Male Smooth Bore VITA 67.3 Connector Solder Attachment for FM-F086, FM- F086HF, FM-F086LL, FM-F086FLX

Fairview Microwave's FMCN49820 Mini SMP male smooth bore VITA 67.3 connector with solder attachment for FM-F086, FM-F086HF, FM-F086LL, and FM-F086FLX is part of our full line of RF components available for same-day shipping. Our Mini SMP male smooth bore VITA 67.3 connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.4:1. The Fairview Microwave blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our Mini SMP male smooth bore VITA 67.3 connector FMCN49820 datasheet specifications and drawing with dimensions are shown below in this PDF. Fairview Microwave'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, Fairview Microwave has the right connector for the job. Fairview Microwave can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	

### Mechanical Specifications

Size	
Length	0.45 in [11.43 mm]
Width/Dia.	0.17 in [4.32 mm]
Height	0.17 in [4.32 mm]
Weight	0.0019 lbs [0.86 g]

### Material Specifications

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

Mechanical Specification Notes:  
500 mating cycles when mated with a Smooth Bore connector.

### Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106, Less Step 7B
Shock	MIL-STD-202, Method 213, Condition I



### Configuration:

- Smooth Bore Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-F086, FM-F086HF, FM-F086LL, FM-F086FLX Interface Type
- Solder Attachment
- VITA 67.3 Design

### Features:

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.4:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact

### Applications:

- General Purpose Test
- Custom Cable Assemblies
- VITA 67.3 Plug-In
- High Density Applications

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Vibration  
Thermal Shock

MIL-STD-202, Method 204, Condition D  
MIL-STD-202, Method 107, Condition B

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

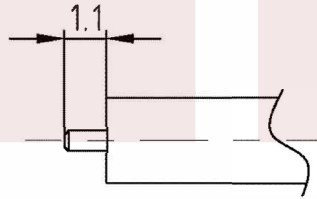
### Plotted and Other Data

Notes:

- FMCN49819 works with FMCN49823 Mini SMP VITA 67.3 10 Port Plug-In Module C and FMCN49825 Mini SMP VITA 67.3 14 Port Plug-In Module C

### Assembly Instruction

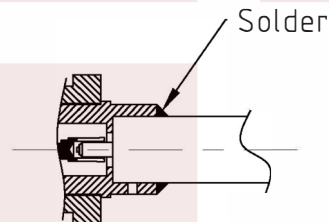
#### Cable Assembly Instructions



Trim insulator and outer conductor to dimensions shown.  
Be careful not to nick the center conductor.

**NOTE:**

To minimize cable dielectric growth during soldering operation,  
normalize cable thermal cycle per MIL-DTL-17 prior to final trim.



Insert cable into body, until outer conductor flush with body.  
Solder outer conductor to body

**NOTE:**

For FMCN49816 and FMCN49820

Mini SMP (SMPM) Male Smooth Bore VITA 67.3 Connector Solder Attachment for FM-F086, FM-F086HF, FM-F086LL, FM-F086FLX 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: [Mini SMP \(SMPM\) Male Smooth Bore VITA 67.3 Connector Solder Attachment for FM-F086, FM-F086HF, FM-F086LL, FM-F086FLX FMCN49820](#)

URL: <https://www.fairviewmicrowave.com/mini-smp-male-smooth-bore-fm-f086-fm-f086hf-fm-f086ll-fm-f086flx-connector-fmcn49820-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.



