

## SMA Female Commercial Grade PCB Connector .145 inch End Launch Solder Attachment .020 Inches Diameter Pin



### FMCN5220

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: .145 inch End Launch
- Commercial Grade Design

#### Features

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- PCB Applications

#### Description

SMA Female Commercial Grade Connector Solder Attachment for .145 inch End Launch Cable, part number FMCN5220, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1.

Fairview's SMA female connector FMCN5220 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.2:1	
Insertion Loss			0.3	dB
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.52 in [13.21 mm]
Width	0.32 in [8.13 mm]
Height	0.4 in [10.16 mm]
Weight	0.0043 lbs [1.95 g]
Mating Cycles	500 Cycles
Mating Torque	0.9 to 1.13 in-lbs [[0.10 to 0.13 Nm]]

SMA Female Commercial Grade PCB Connector .145 inch  
End Launch Solder Attachment .020 Inches Diameter Pin



**FMCN5220**

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Brass	Nickel
Body	Brass	Gold

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

SMA Female Commercial Grade PCB Connector .145 inch End Launch Solder Attachment .020 Inches Diameter Pin 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: [SMA Female Commercial Grade PCB Connector .145 inch End Launch Solder Attachment .020 Inches Diameter Pin FMCN5220](#)

URL: <https://www.fairviewmicrowave.com/sma-female-.145-end-launch-pcb-connector-fmcn5220-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMCN5220 CAD Drawing

SMA Female Commercial Grade PCB Connector .145 inch End  
Launch Solder Attachment .020 Inches Diameter Pin

