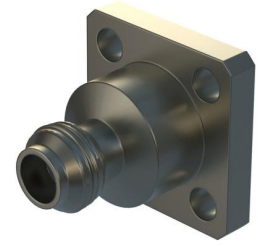


1.0mm Female Connector Field Replaceable
4 Hole Flange accepts 0.23mm (.009inch) pin,
.25 inch Hole Spacing with Metal Contact Ring



FMCN5520

Configuration

- 1.0mm Female Connector
- IEC61169-31
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: accepts 0.23mm (.009inch) pin
- 4 Hole Flange

Features

- Operating Frequency of 110 GHz Max.
- Excellent VSWR of 1.25:1
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact
- Metal Contact Ring

Applications

- General Purpose Test
- Rack and Panel Mount Applications

Description

1.0mm Female Connector Field Replaceable Attachment for accepts 0.23mm (.009inch) pin Cable, part number FMCN5520, from Fairview Microwave is in-stock and ships same day. This 1.0mm female connector operates up to a maximum frequency of 110 GHz and offers excellent VSWR of 1.25:1. Fairview's FMCN5520 4 hole flange 1.0mm connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications. Fairview's field replaceable connector is easy to install or replace in the field.

Fairview's 1.0mm female 4 hole flange connector FMCN5520 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

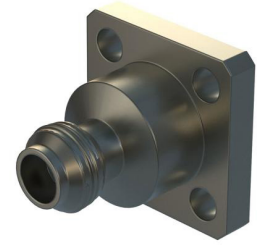
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
VSWR			1.25:1	
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.377 in [9.58 mm]
Width	0.374 in [9.5 mm]
Height	0.374 in [9.5 mm]
Weight	0.05 lbs [22.68 g]

1.0mm Female Connector Field Replaceable
4 Hole Flange accepts 0.23mm (.009inch) pin,
.25 inch Hole Spacing with Metal Contact Ring



FMCN5520

Mating Cycles	500 Cycles
Mating Torque	2.65 to 3.63 in-lbs [0.30 to 0.41 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PEI	
Outer Conductor	Passivated Stainless Steel	
Body	Passivated Stainless Steel	

Environmental Specifications

Temperature	
Operating Range	-55 to +105 deg C
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

1.0mm Female Connector Field Replaceable 4 Hole Flange accepts 0.23mm (.009inch) pin, .25 inch Hole Spacing with Metal Contact Ring 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.

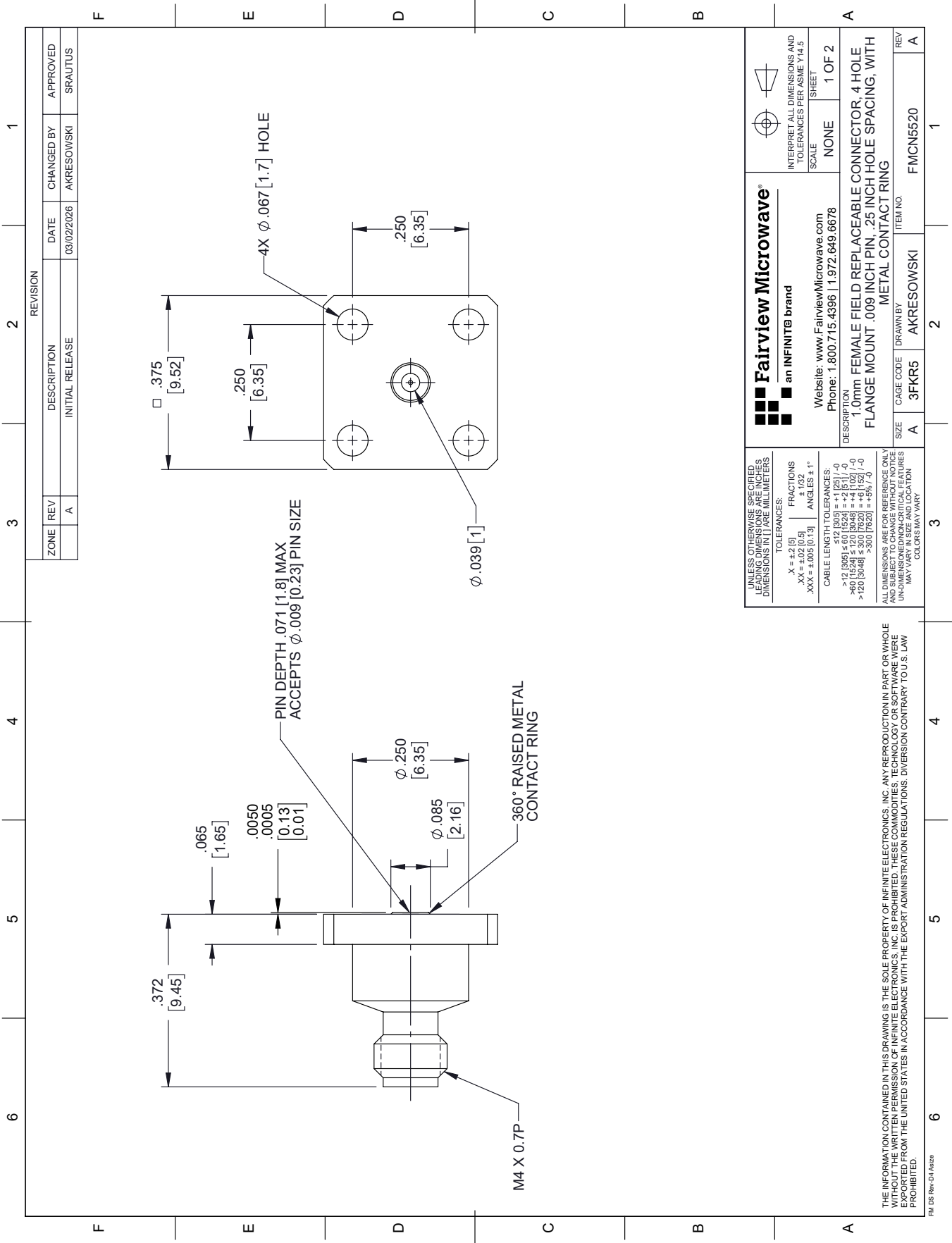
For additional information on this product, please click the following link: [1.0mm Female Connector Field Replaceable 4 Hole Flange accepts 0.23mm \(.009inch\) pin, .25 inch Hole Spacing with Metal Contact Ring FMCN5520](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/1.0mm-female-accepts-0.23mm-.009inch-pin-connector-fmcn5520.html>

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.

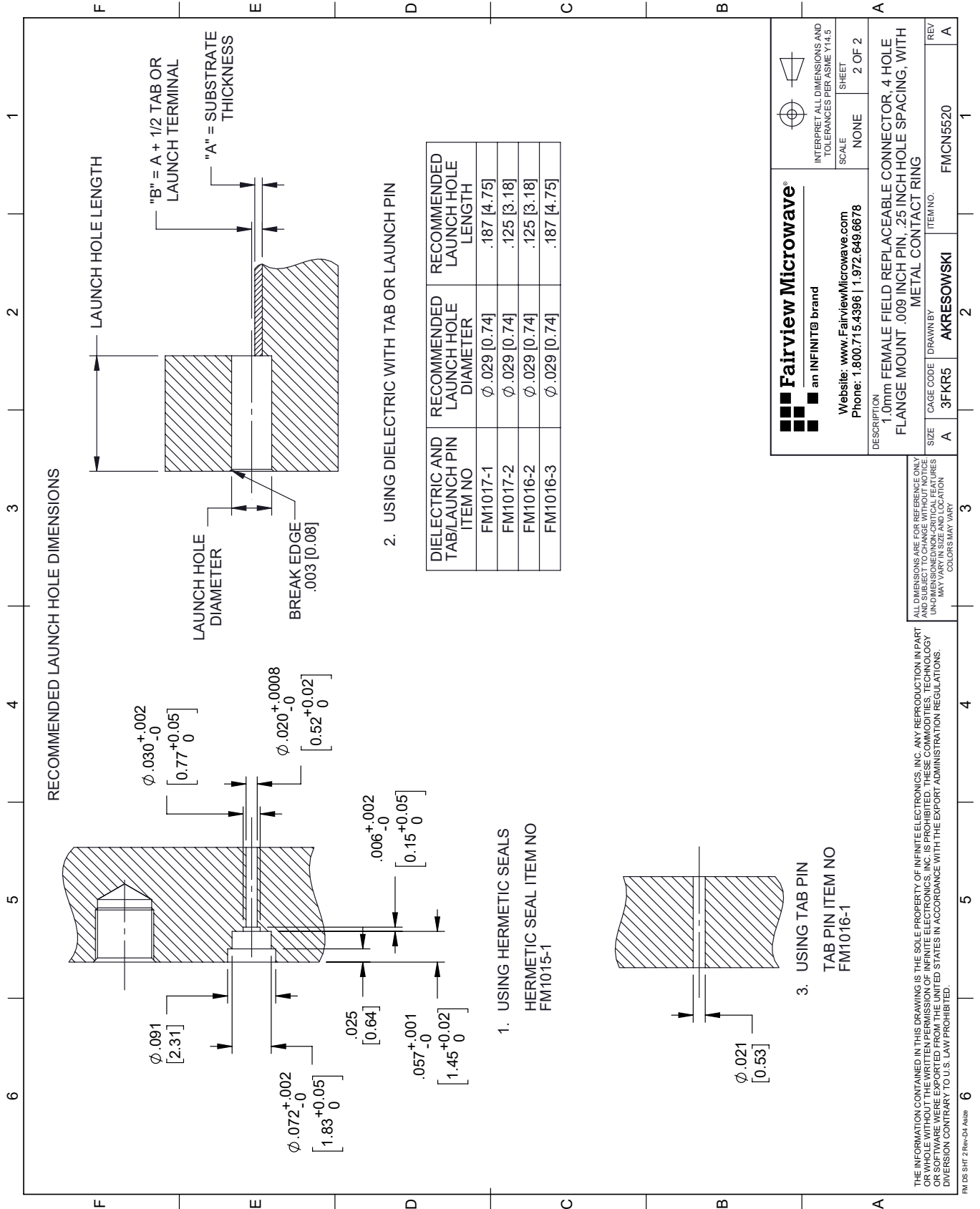
FMCN5520 CAD Drawing

1.0mm Female Connector Field Replaceable 4 Hole Flange accepts 0.23mm (.009inch) pin, .25 inch Hole Spacing with Metal Contact Ring



FMCN5520 CAD Drawing

1.0mm Female Connector Field Replaceable 4 Hole Flange accepts 0.23mm (.009inch) pin, .25 inch Hole Spacing with Metal Contact Ring



Fairview Microwave
an INFINITE brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 2 OF 2

DESCRIPTION: 1.0mm FEMALE FIELD REPLACEABLE CONNECTOR, 4 HOLE FLANGE MOUNT, .009 INCH PIN, .25 INCH HOLE SPACING, WITH METAL CONTACT RING

REV A
CAGE CODE 3FKR5
DRAWN BY AKRESOWSKI
ITEM NO. FMCN5520

ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ON CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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