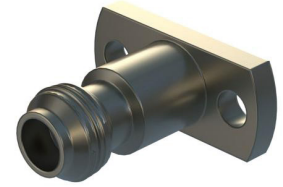


1.0mm Female Connector Field Replaceable
2 Hole Flange accepts 0.23mm (.009inch) pin,
.28 inch Hole Spacing with Metal Contact Ring



FMCN5519

Configuration

- 1.0mm Female Connector
- IEC61169-31
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: accepts 0.23mm (.009inch) pin
- 2 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 FMCN5519, 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 FMCN5519 2 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 2 hole flange connector FMCN5519 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 | 0.372 in [9.45 mm] |
| Width | 0.179 in [4.55 mm] |
| Height | 0.4 in [10.16 mm] |
| Weight | 0.05 lbs [22.68 g] |

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



FMCN5519

| | |
|---------------|---------------------------------------|
| 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 2 Hole Flange accepts 0.23mm (.009inch) pin, .28 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.

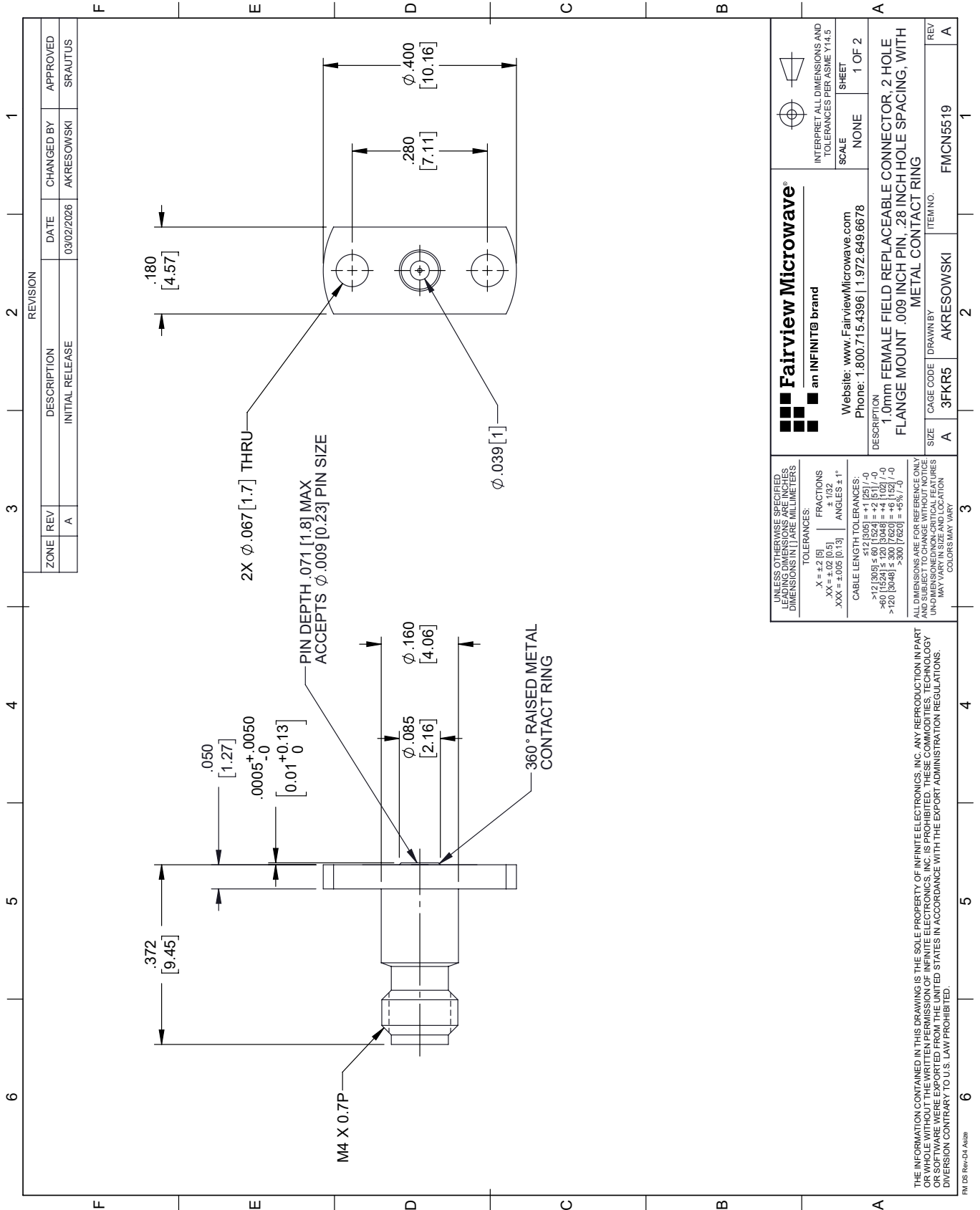
For additional information on this product, please click the following link: [1.0mm Female Connector Field Replaceable 2 Hole Flange accepts 0.23mm \(.009inch\) pin, .28 inch Hole Spacing with Metal Contact Ring FMCN5519](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/1.0mm-female-accepts-0.23mm-.009inch-pin-connector-fmcn5519.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.

FMCN5519 CAD Drawing

1.0mm Female Connector Field Replaceable 2 Hole Flange accepts 0.23mm (.009inch) pin, .28 inch Hole Spacing with Metal Contact Ring



| REVISION | | DATE | CHANGED BY | APPROVED |
|----------|-----|-----------------|-----------------|----------|
| ZONE | REV | DESCRIPTION | INITIAL RELEASE | |
| A | | INITIAL RELEASE | AKRESOWSKI | SRAUTUS |

Fairview Microwave®
an INFINIT® brand

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

DESCRIPTION: 1.0mm FEMALE FIELD REPLACEABLE CONNECTOR, 2 HOLE FLANGE MOUNT, .009 INCH PIN, .28 INCH HOLE SPACING, WITH METAL CONTACT RING

SCALE: NONE
SHEET: 1 OF 2

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| | | | |
|------|-----------|------------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 3FKR5 | AKRESOWSKI | FMCN5519 |

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. LEADING DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
X = ±.2 (5) FRACTIONS ±.132
.XX = ±.02 (0.5) ANGLES ± 1°
.XXX = ±.005 (0.13)

CABLE LENGTH TOLERANCES:
≤ 12 (3048) ±.60 (1524) = ±.2 (5) / -0
> 12 (3048) ≤ 60 (1524) = ±.4 (102) / -0
> 60 (1524) ≤ 120 (3048) = ±.4 (102) / -0
> 120 (3048) ≤ 300 (7620) = ±.5 (12.7) / -0

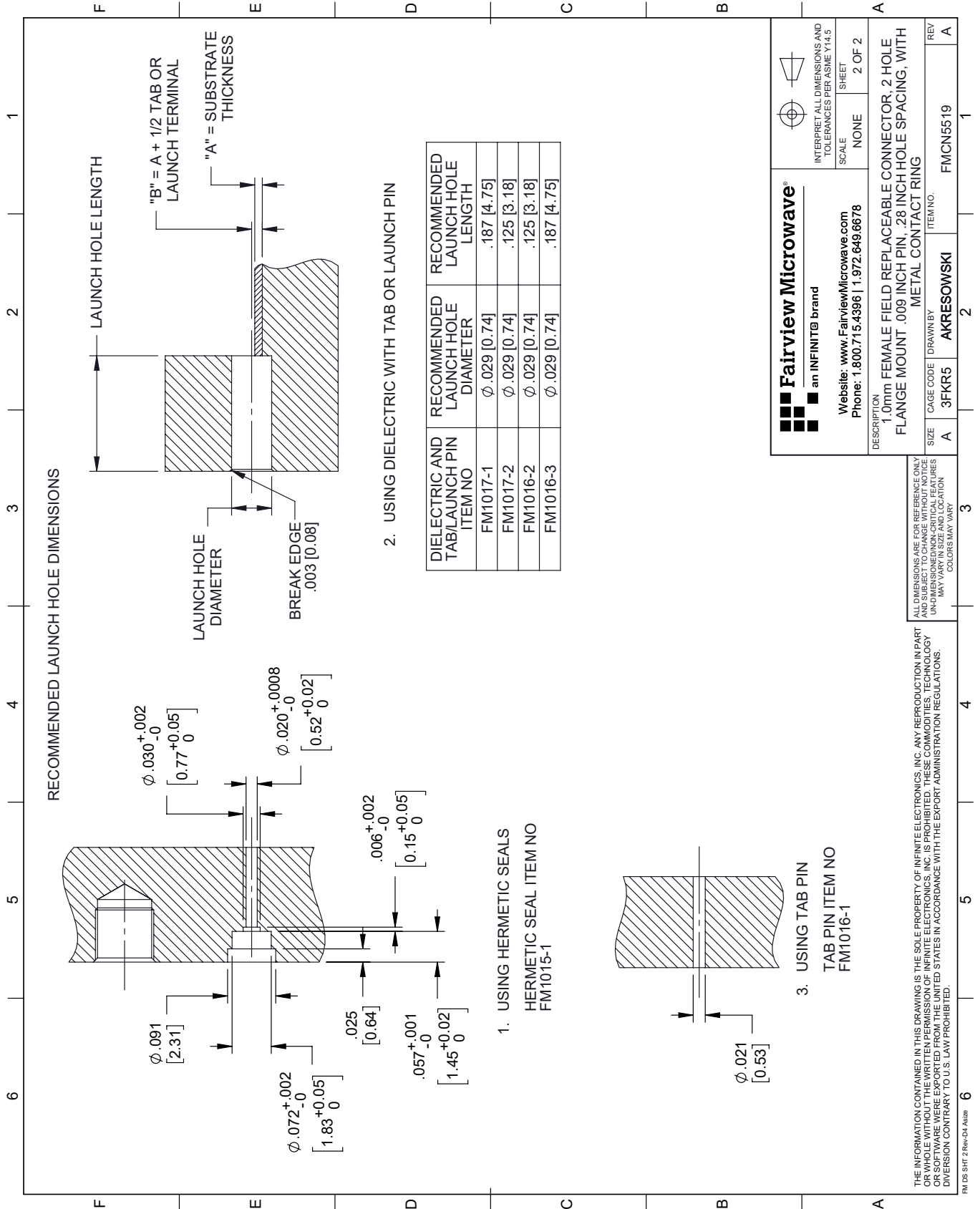
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE NON-CRITICAL FEATURES. DIMENSIONS MAY VARY.

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PM DS Rev-D4 Alt26

FMCN5519 CAD Drawing

1.0mm Female Connector Field Replaceable 2 Hole Flange accepts 0.23mm (.009inch) pin, .28 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, 2 HOLE FLANGE MOUNT .009 INCH PIN, .28 INCH HOLE SPACING, WITH METAL CONTACT RING

REV A
CAGE CODE 3FKR5
DRAWN BY AKRESOWSKI
ITEM NO. FMCN5519

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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DIMENSIONS NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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