

1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter, Engineering Grade



FMAD10020

Configuration

- 1.0mm Female Connector 1
- 1.0mm Female Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

Features

- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

1.0mm female to 1.0mm female adapter part number FMAD10020 from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm adapter has a female to female gender configuration and is built of durable stainless steel in an engineering grade design. FMAD10020 1.0mm female to 1.0mm female adapter operates to 110 GHz.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
VSWR		1.3:1		
Insertion Loss			0.839	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.26 in [6.71 mm]
Width	0.26 in [6.71 mm]
Height	0.59 in [14.99 mm]
Weight	0.01 lbs [4.54 g]

Description	Connector 1	Connector 2
Polarity	Standard	Standard

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Description	Connector 1	Connector 2
Mating Cycles, Min	1,000	1,000

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.0mm Female		1.0mm Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Outer Conductor	Passivated Stainless Steel		Passivated Stainless Steel	
Body	Passivated Stainless Steel		Passivated Stainless Steel	

Environmental Specifications

Temperature

Operating Range

-65 to +165 °C

Shock

Per MIL-STD-202, Method 213, Test Condition I

Vibration

Per MIL-STD-202, Method 204, Test Condition D

Salt Spray

Per MIL-STD-202, Method 101, Test Condition B, Solution 5%

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

Plotted and Other Data

1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter, Engineering Grade 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.

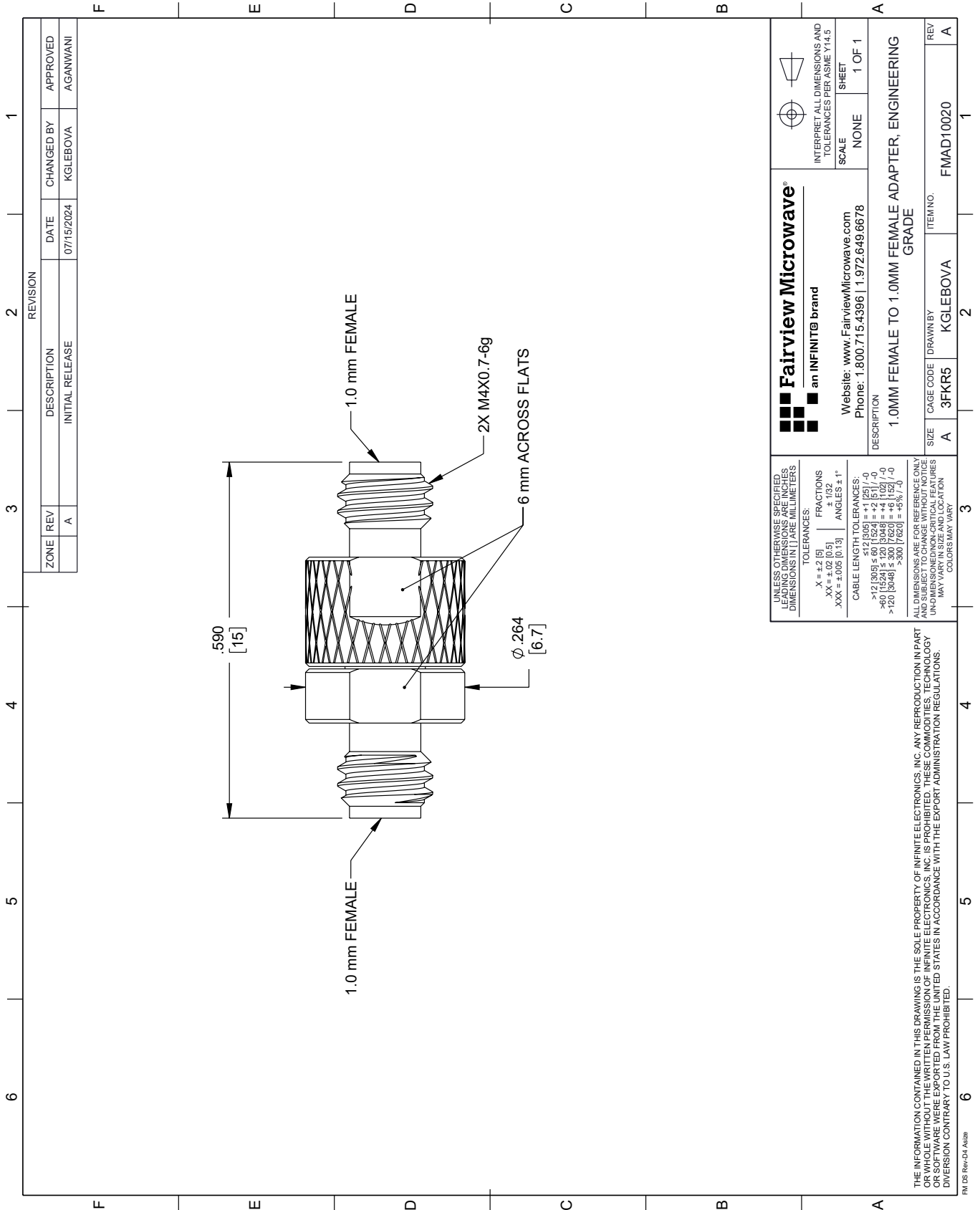
For additional information on this product, please click the following link: [1.0mm Female \(Jack\) to 1.0mm Female \(Jack\) Adapter, Engineering Grade FMAD10020](#)

URL: <https://www.fairviewmicrowave.com/engineering-grade-1.0mm-female-to-1.0mm-female-adapter-with-passivated-stainless-steel-body-fmad10020-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.

FMAD10020 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	KGLEBOVA	AGANWANI

Fairview Microwave®
an INFINIT® brand

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

SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: 1.0MM FEMALE TO 1.0MM FEMALE ADAPTER, ENGINEERING GRADE

ITEM NO.: FMAD10020

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KGLEBOVA

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ±.60 [15.24] = ±.2 [5.1] / -0
 > 12 [305] ≤ 60 [1524] = ±.4 [10.2] / -0
 > 60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 > 120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0

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

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FM DS Rev-D4 Alt2b