

## 1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter with Passivated Stainless Steel Body



### FMAD10138

#### Configuration

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

#### Features

- VSWR of 1.4:1 max up to 110 GHz
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

#### Applications

- General Purpose Test

#### Description

1.0mm female to 1.0mm female adapter part number FMAD10138 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. FMAD10138 1.0mm female to 1.0mm female adapter operates to 110 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.4:1 maximum.

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			1.4:1	
Insertion Loss			0.52	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			90	dB

#### Mechanical Specifications

##### Size

Length	0.44 in [11.20 mm]
Width	0.24 in [5.99 mm]
Height	0.24 in [5.99 mm]
Weight	0.01 lbs [4.54 g]

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Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	2.65 to 3.63 in-lbs 0.30 to 0.41 Nm	2.65 to 3.63 in-lbs 0.30 to 0.41 Nm
Contact Captivation Axial Force, Min	2.25 lbs [1.02 kg]	2.25 lbs [1.02 kg]
Coupling Proof Torque	6.2 in-lbs [0.7 Nm]	6.2 in-lbs [0.7 Nm]

### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.0mm Female		1.0mm Female	
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PPO		PPO	
Body	Passivated Stainless Steel		Passivated Stainless Steel	

### Environmental Specifications

#### Temperature

Operating Range

-55 to +105 °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

1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter with Passivated Stainless Steel Body 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.

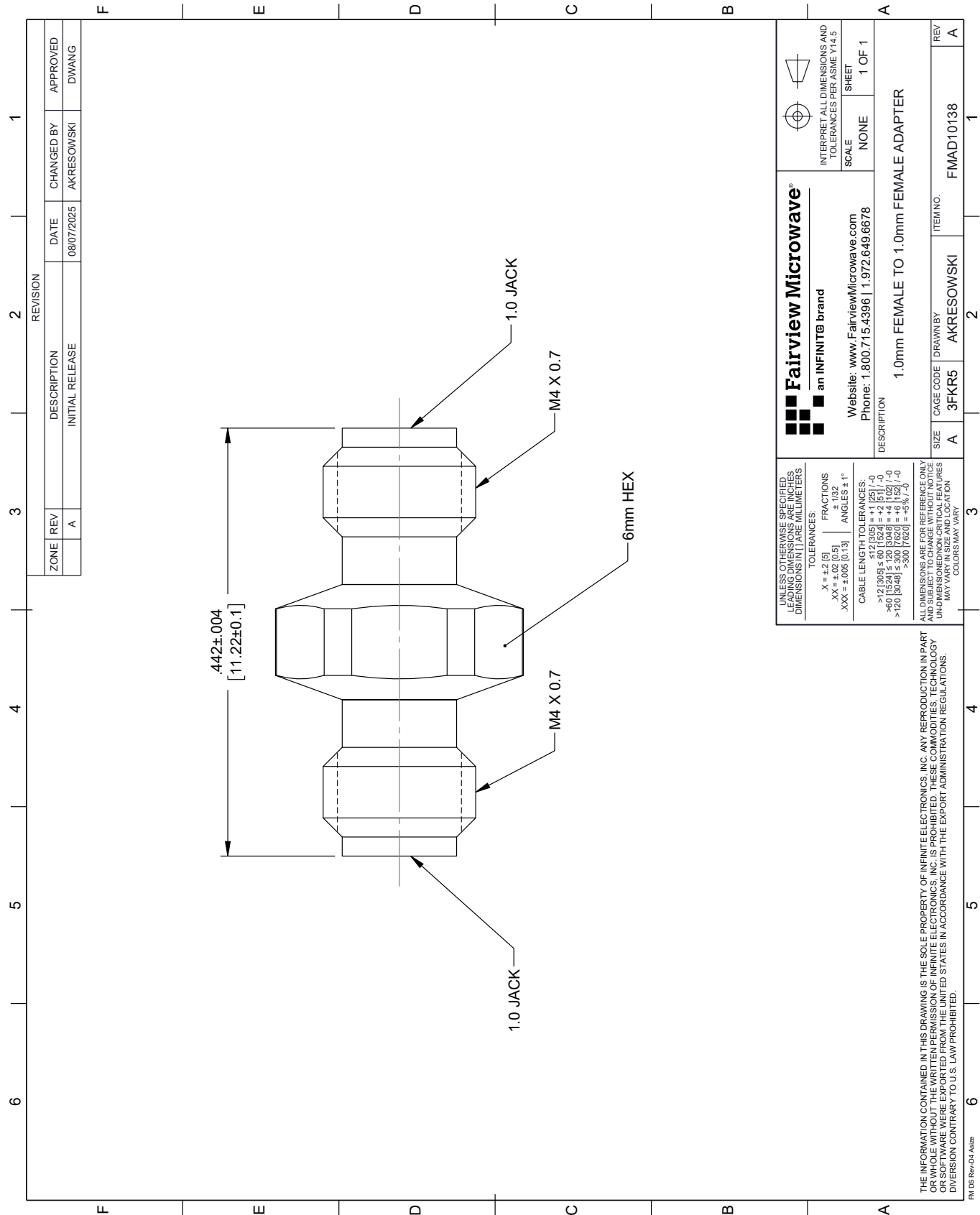
For additional information on this product, please click the following link: [1.0mm Female \(Jack\) to 1.0mm Female \(Jack\) Adapter with Passivated Stainless Steel Body FMAD10138](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/1.0mm-female-to-1.0mm-female-adapter-with-passivated-stainless-steel-body-fmad10138.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.

FMAD10138 CAD Drawing

1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter with Passivated Stainless Steel Body



REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	08/07/2025
		CHANGED BY	APPROVED
		AKRESOWSKI	DWANG

<b>Fairview Microwave®</b> an INFINITI® brand		Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE NONE	SHEET 1 OF 1
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.		TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		FRACTIONS ± 1/32 ANGLES ± 1°		DESCRIPTION 1.0mm FEMALE TO 1.0mm FEMALE ADAPTER
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.125 / -0 >60 [1524] ≤ 120 [3048] = ±.102 / -0 >120 [3048] ≤ 300 [7620] = ±.125 / -0 >300 [7620] = ±.15 / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.				
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV		
A	3FKR5	AKRESOWSKI	FMAD10138	A		

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.1]

1.0 JACK

M4 X 0.7

6mm HEX

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