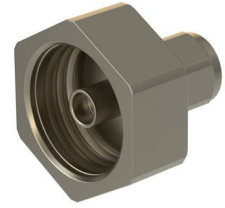


## 1.0mm Male (Plug) to 1.0mm NMD Female (Jack) Adapter with Passivated Stainless Steel Body



### FMAD10150

#### Configuration

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

#### Features

- VSWR of 1.3:1 max up to 110 GHz
- 1.0mm interface meets IEC61169-31
- 1.0mm NMD interface meets IEC61169-31
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

#### Applications

- Enables Between Series Connections
- General Purpose Test

#### Description

1.0mm male to 1.0mm NMD female adapter part number FMAD10150 from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm NMD adapter has a male to female gender configuration and is built of durable stainless steel. FMAD10150 1.0mm male to 1.0mm NMD female adapter operates to 110 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 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			1.3:1	
Insertion Loss			0.524	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

#### Electrical Specification Notes:

Dielectric Withstanding Voltage (at sea level) - 500 Vrms, 50Hz

Working Voltage (at sea level) - 150 Vrms, 50Hz

RF Leakage =90dB to 1GHz

#### Mechanical Specifications

##### Size

Length	0.52 in [13.28 mm]
Width	0.51 in [12.98 mm]
Height	0.51 in [12.98 mm]

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



**FMAD10150**

Weight	0.05 lbs [22.68 g]	
Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	IEC61169-31	IEC61169-31
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 Male		1.0mm NMD Female	
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PPO		PPO	
Outer Conductor			Passivated Stainless Steel	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel		Passivated Stainless Steel	

**Environmental Specifications**

**Temperature**

Operating Range

Humidity

Thermal Shock

Salt Spray

-55 to +105 °C

MIL-STD-202, Method 106

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

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



### FMAD10150

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

#### Plotted and Other Data

1.0mm Male (Plug) to 1.0mm NMD 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.

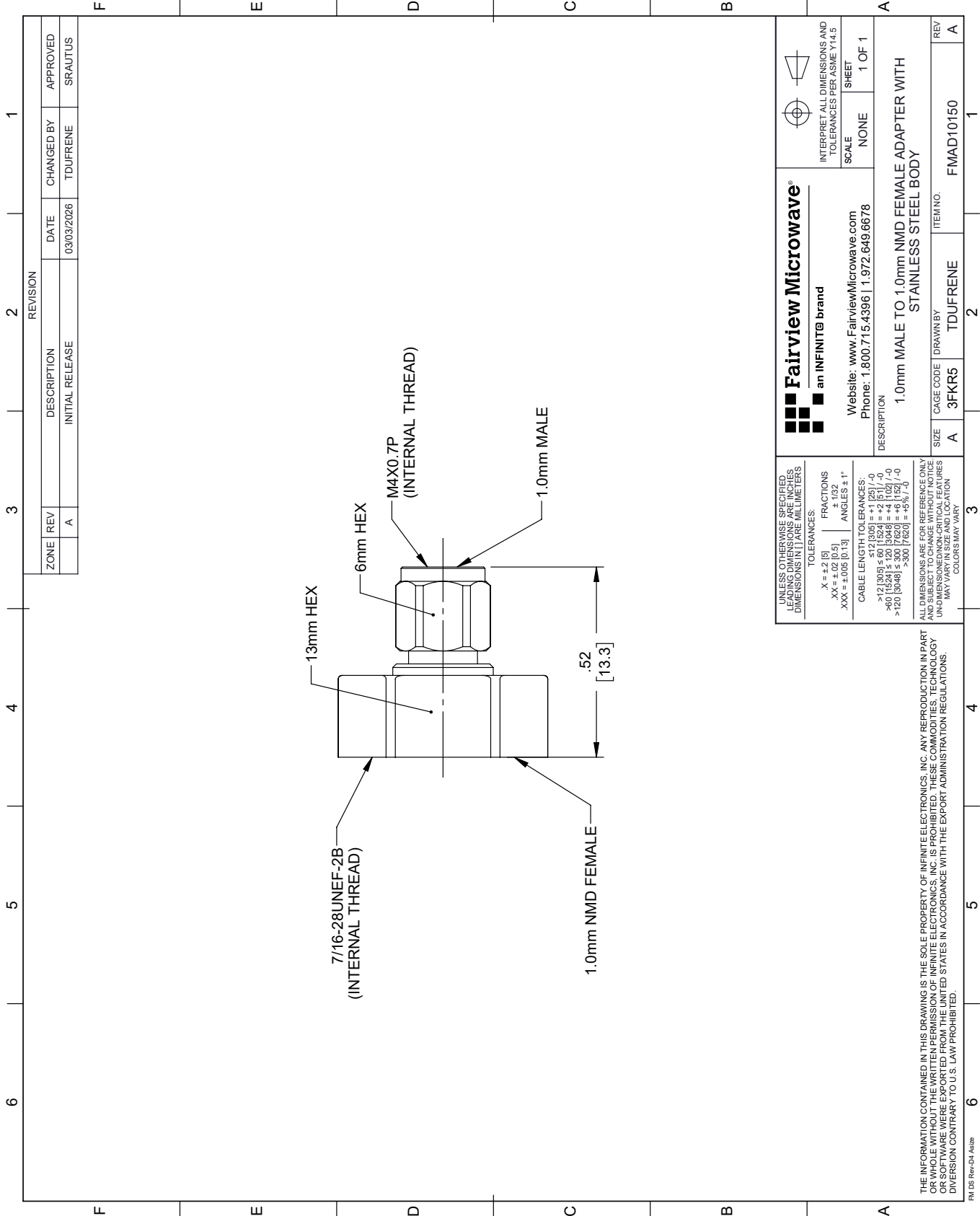
For additional information on this product, please click the following link: [1.0mm Male \(Plug\) to 1.0mm NMD Female \(Jack\) Adapter with Passivated Stainless Steel Body FMAD10150](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/1.0mm-male-to-1.0mm-nmd-female-adapter-mil-std-202-method-106-with-passivated-stainless-steel-body-fmad10150.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.

# FMAD10150 CAD Drawing

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



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/03/2026	TDUFRENE	SRAUTUS

 <b>Fairview Microwave</b> an INFINIT® brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION <b>1.0mm MALE TO 1.0mm NMD FEMALE ADAPTER WITH STAINLESS STEEL BODY</b>		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FMAD10150
DRAWN BY		REV
TDUFRENE		A

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

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS  
 ± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0  
 >300 [7620] = ±.9 [229] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. LEADING DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [ ] ARE MILLIMETERS. DIMENSIONS MAY VARY.

COLORS MAY VARY

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FM DS Rev-D4 Alt2