

## 1.85mm Male (Plug) to 1.0mm NMD Female (Jack) Adapter with Passivated Stainless Steel Body



### FMAD10147

#### Configuration

- 1.85mm Male Connector 1
- 1.0mm NMD Female Connector 2
- 50 Ohms Impedance
- Straight Body Geometry

#### Features

- VSWR of 1.3:1 max up to 67 GHz
- 1.85mm interface meets IEEE287; IEC61169-32
- 1.0mm NMD interface meets IEEE287; IEC61169-31
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

#### Applications

- Enables Between Series Connections
- General Purpose Test

#### Description

1.85mm male to 1.0mm NMD female adapter part number FMAD10147 from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.0mm NMD adapter has a male to female gender configuration and is built of durable stainless steel. FMAD10147 1.85mm male to 1.0mm NMD female adapter operates to 67 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum. The 1.85mm connector mates mechanically with commercially available 2.4mm connectors.

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		67	GHz
Impedance		50		Ohms
VSWR			1.3:1	
Insertion Loss			0.409	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length	0.93 in [23.62 mm]
Width	0.63 in [16.00 mm]
Height	0.63 in [16.00 mm]
Weight	0.05 lbs [22.68 g]

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**FMAD10147**

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	IEEE287; IEC61169-32	IEEE287; IEC61169-31
Mating Cycles, Min	500	500
Mating Torque	7.08 to 9.74 in-lbs 0.80 to 1.10 Nm	2.65 to 3.63 in-lbs 0.30 to 0.41 Nm
Contact Captivation Axial Force, Min	4.5 lbs [2.04 kg]	2.25 lbs [1.02 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	6.2 in-lbs [0.7 Nm]

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.85mm 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	
Gasket	Silicone			
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

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

#### Plotted and Other Data

1.85mm 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.

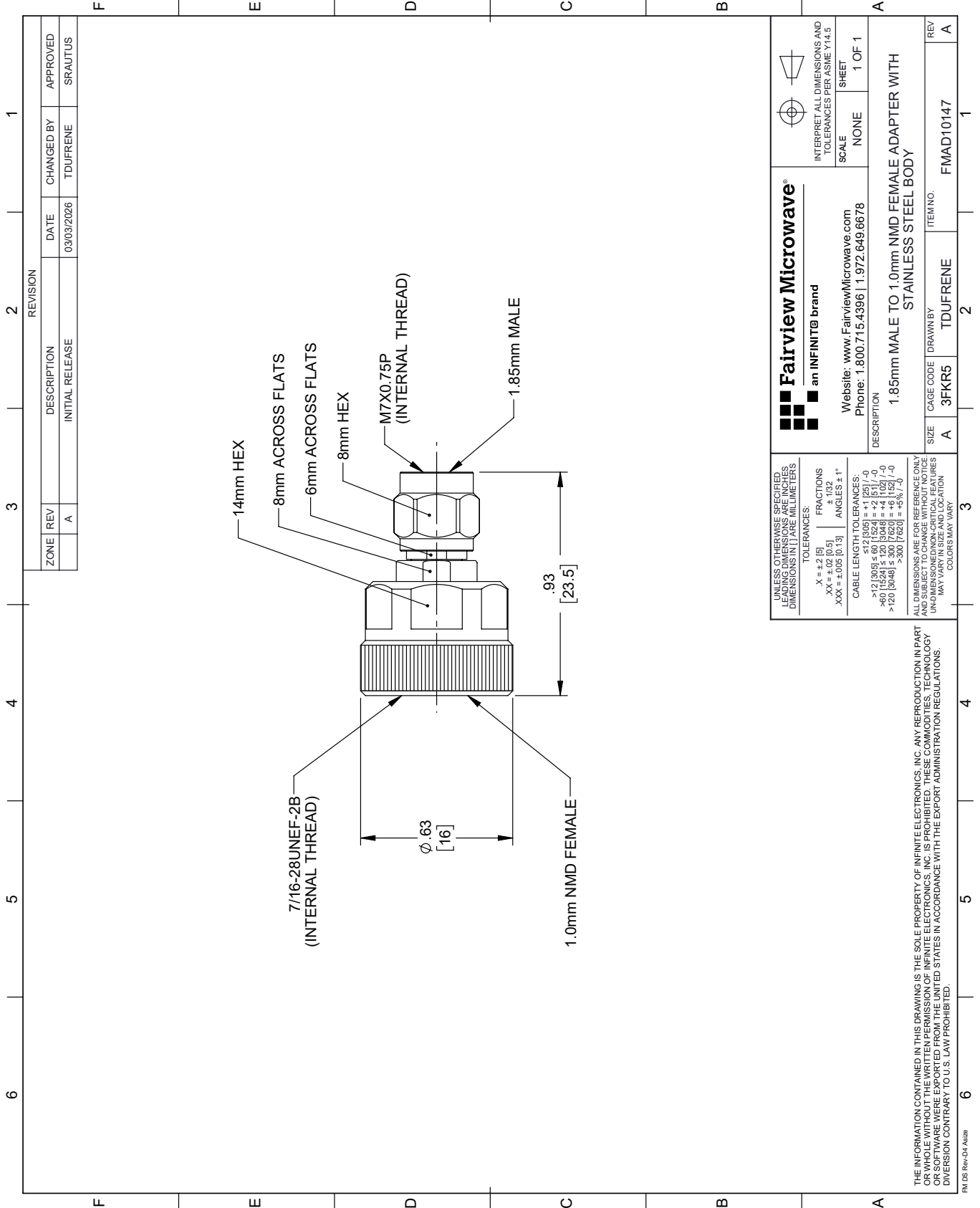
For additional information on this product, please click the following link: [1.85mm Male \(Plug\) to 1.0mm NMD Female \(Jack\) Adapter with Passivated Stainless Steel Body FMAD10147](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/1.85mm-male-to-1.0mm-nmd-female-adapter-mil-std-202-method-106-with-passivated-stainless-steel-body-fmad10147.html>

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# FMAD10147 CAD Drawing

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

**Fairview Microwave®**  
an INFINIT® brand

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: 1.85mm MALE TO 1.0mm NMD FEMALE ADAPTER WITH STAINLESS STEEL BODY

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	TDUFRENE	FMAD10147

REV: A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. 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] = ±.1 [25] / -0  
 > 300 [7620] = ±.5 [12.7] / -0

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

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FM DS Rev-D4 Alt2b