

## 1.0mm Male (Plug) to 1.0mm Male (Plug) Adapter, Engineering Grade



### FMAD10018

#### Configuration

- 1.0mm Male Connector 1
- 1.0mm Male Connector 2
- 50 Ohms Impedance
- Engineering Grade Design

#### Features

- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test

#### Description

1.0mm male to 1.0mm male adapter part number FMAD10018 from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm adapter has a male to male gender configuration and is built of durable stainless steel in an engineering grade design. FMAD10018 1.0mm male to 1.0mm male adapter operates to 110 GHz. This 1.0mm adapter allows for easier connections in tight spaces.

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	0.57 in [14.58 mm]
Weight	0.01 lbs [4.54 g]

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

1.0mm Male (Plug) to 1.0mm Male (Plug)  
Adapter, Engineering Grade



**FMAD10018**

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.0mm Male		1.0mm Male	
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 Male (Plug) to 1.0mm Male (Plug) 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.

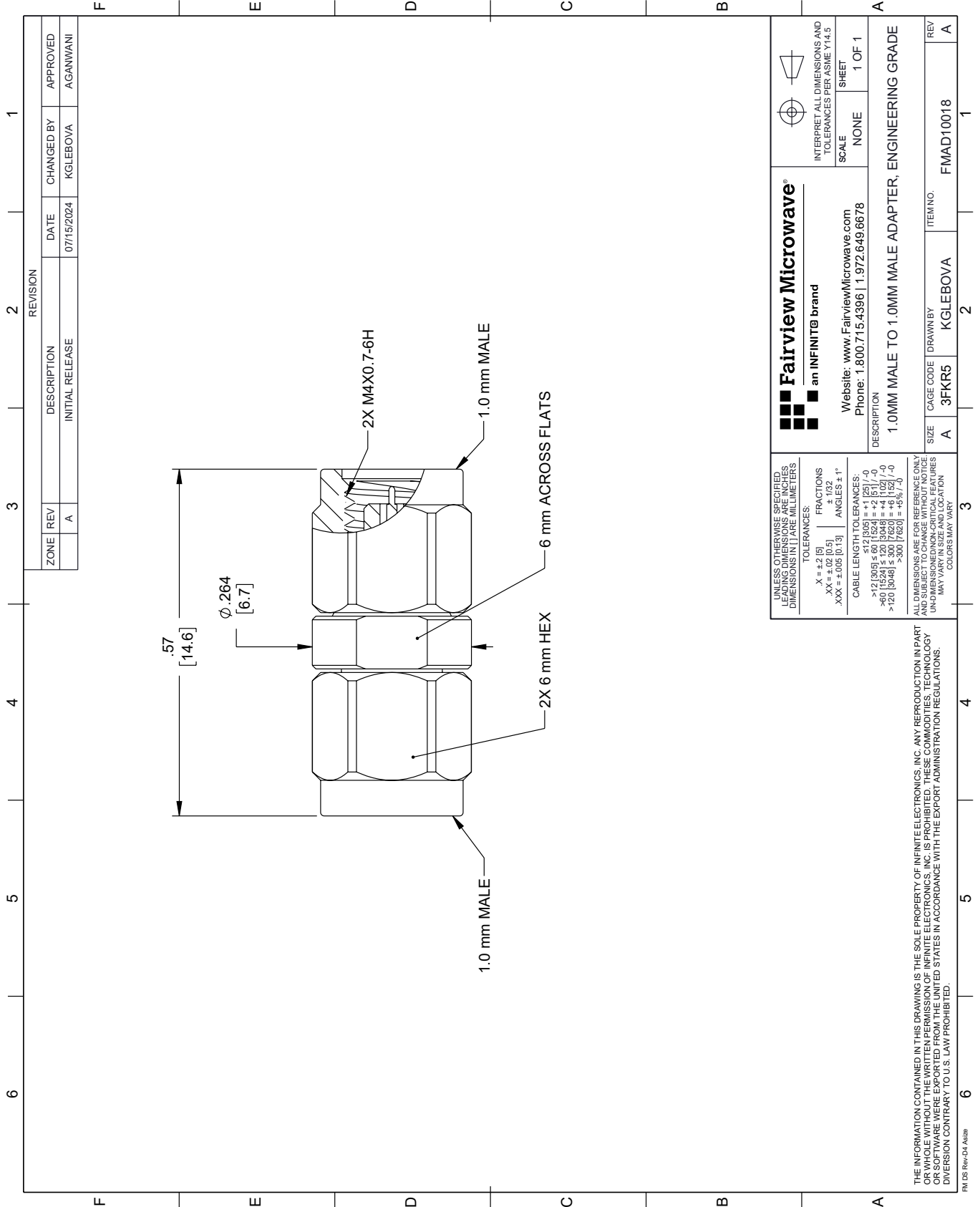
For additional information on this product, please click the following link: [1.0mm Male \(Plug\) to 1.0mm Male \(Plug\) Adapter, Engineering Grade FMAD10018](#)

URL: <https://www.fairviewmicrowave.com/engineering-grade-1.0mm-male-to-1.0mm-male-adapter-with-passivated-stainless-steel-body-fmad10018-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.

# FMAD10018 CAD Drawing

1.0mm Male (Plug) to 1.0mm Male (Plug) Adapter, Engineering Grade



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

**Fairview Microwave®**  
an INFINIT® brand

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

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

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

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

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

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	KGLEBOVA	FMAD10018

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FM DS Rev-D4 Adz