

## Engineering Grade 2.4mm Male (Plug) to 2.4mm Female (Jack) Adapter with Stainless Steel Body

2.4mm male to 2.4mm female adapter part number FMAD1606 from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm adapter has a male to female gender configuration and is built of durable stainless steel in an engineering grade design. FMAD1606 2.4mm male to 2.4mm female adapter operates to 50 GHz. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. Our 2.4mm to 2.4mm RF adapter can also be used as a connector saver to extend equipment life.

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	Min	Typ	Max	Units
Frequency Range	DC		50	GHz
VSWR		1.35:1		
DWV (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 10	10 to 25	25 to 50	GHz
Insertion Loss, Max	0.1	0.141	0.158	0.25	0.354	dB

Electrical Specification Notes:  
 Values at sea level

### Mechanical Specifications

Size	
Length	0.95 in [24.10 mm]
Width	0.31 in [7.90 mm]
Height	0.31 in [7.90 mm]
Weight	0.01 lbs [3.63 g]

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	7.08 to 9.74 in-lbs [0.80 to 1.10 Nm]	7.08 to 9.74 in-lbs [0.80 to 1.10 Nm]
Contact Retention Force, Min	60.7 lbs [27.53 kg]	60.7 lbs [27.53 kg]
Contact Captivation Axial Force, Min	4.5 lbs [2.04 kg]	4.5 lbs [2.04 kg]



### Configuration:

- 2.4mm Male Connector 1
- 2.4mm Female Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

### Features:

- Gold Plated Beryllium Copper Contact
- Max VSWR of 1.3:1 up to 50 GHz

### Applications:

- Connector Saver
- General Purpose Test

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Coupling Proof Torque                      15 in-lbs [1.7 Nm]                      15 in-lbs [1.7 Nm]

**Material Specifications**

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold	Gold
Insulation Material	PPO	PPO
Outer Contact Material		Beryllium Copper
Outer Contact Plating		Gold
Body Material	Stainless Steel	Stainless Steel
Body Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material	Beryllium Copper	
Coupling Nut Plating	Gold	

**Environmental Specifications**
**Temperature**

Operating Range

Humidity

Thermal Shock

Salt Spray

-55 to +105 deg C

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

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

**Plotted and Other Data**

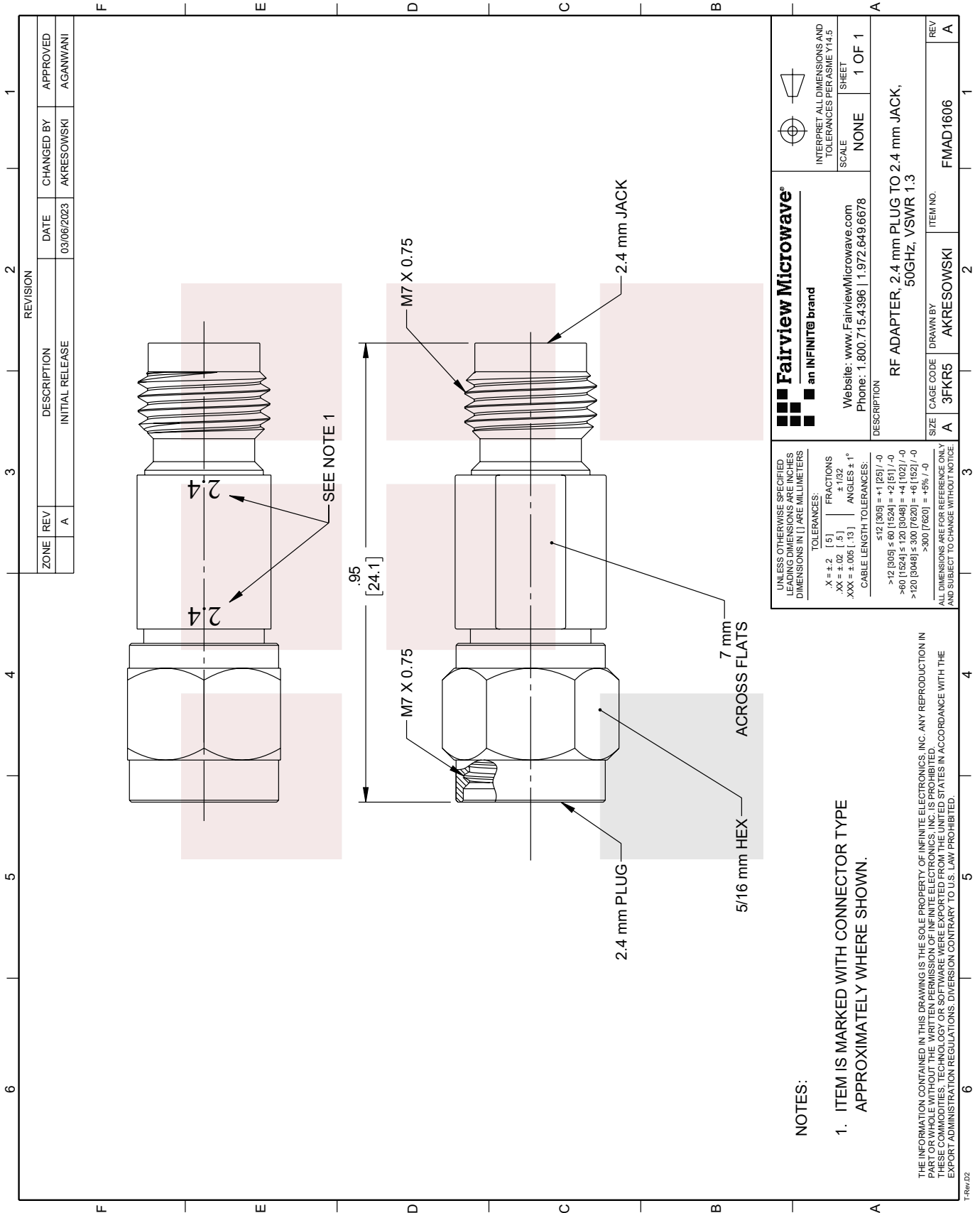
Notes:

Engineering Grade 2.4mm Male (Plug) to 2.4mm Female (Jack) Adapter with 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: [Engineering Grade 2.4mm Male \(Plug\) to 2.4mm Female \(Jack\) Adapter with Stainless Steel Body FMAD1606](#)

URL: <https://www.fairviewmicrowave.com/2-4mm-male-to-2-4mm-female-adapter-mil-std-202-method-206-stainless-steel-engineering-grade-fmad1606-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



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

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/06/2023	AKRESOWSKI	AGANWANI

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

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS  
 .XX = ±.02 [ .5 ] ±.1/32  
 .XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤ 12 [ 305 ] = ±1 [ 25 ] / -0  
 > 12 [ 305 ] ≤ 60 [ 1524 ] = +2 [ 51 ] / -0  
 > 60 [ 1524 ] ≤ 120 [ 3048 ] = +4 [ 102 ] / -0  
 > 120 [ 3048 ] ≤ 300 [ 7620 ] = +6 [ 152 ] / -0  
 > 300 [ 7620 ] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

FAIRVIEW MICROWAVE®  
an INFINITE 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 SHEET

SCALE NONE

1 OF 1

DESCRIPTION  
 RF ADAPTER, 2.4 mm PLUG TO 2.4 mm JACK, 50GHz, VSWR 1.3

ITEM NO. FMAD1606

REV A

3FKR5

AKRESOWSKI

3

NOTES:

1. ITEM IS MARKED WITH CONNECTOR TYPE APPROXIMATELY WHERE SHOWN.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS - DIVISION CONTRARY TO U.S. LAW PROHIBITED.