

## 1.35mm Female to 1.0mm Male Adapter, Engineering Grade



### FMAD10012

#### Configuration

- 1.35mm Female Connector 1
- 1.0mm Male Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

#### Features

- VSWR of 1.3:1 max up to 90 GHz
- Gold Plated Beryllium Copper Contact

#### Applications

- Enables Between Series Connections
- General Purpose Test

#### Description

The engineering grade 1.35mm adapter FMAD10012 from Fairview Microwave is part of a very large in-stock collection of RF interconnect components. Our threaded 1.35mm to threaded 1.0mm RF adapter comes with a 50 Ohm impedance. Our 1.35mm to 1.0mm adapter is an engineering grade adapter designed for repeated use in a variety of applications without performance degradation. This adapter is manufactured to precise RF component specifications and has a maximum VSWR of 1.3:1. Our engineering grade RF adapter has a dielectric withstanding voltage of 500 Vrms. This radio frequency adapter has a maximum insertion loss of 0.758 dB.

This 1.35mm to 1.0mm engineering grade adapter is constructed with the female gender on side 1 and the male gender on side 2. The 1.35mm female to 1.0mm male coaxial adapter from Fairview Microwave has a straight body style. This 1.35mm to 1.0mm adapter is an in-line RF adapter in an engineering grade design. Our RF adapter can be utilized to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. The FMAD10012 adapter has a length of 0.263 inches, a width of 0.263 inches, and a weight of 0.007 lbs.

Our in-series RF adapter operates at a maximum frequency of 90 GHz. This 1.35mm female to 1.0mm male radio frequency adapter has a passivated stainless steel connector body. The Fairview Microwave FMAD10012 coaxial RF adapter operates at temperatures ranging from -65 to 165 degrees C. Our engineering grade adapter is ideal for use in RF and microwave systems. Additional dimensions and specifications for this adapter are on our downloadable PDF datasheet above.

Fairview Microwave's 1.35mm female to 1.0mm male adapter is part of over one million RF, microwave and millimeter wave components in stock for worldwide shipment. We also stock and custom-build 1.35mm coaxial cables that ship quickly from our facility for all your RF adapter component needs. Make your online purchase right now to take advantage of our same-business-day shipping. For further information on similar products, our expert technical support and trained sales team can get you the ideal 90 GHz radio frequency adapter as per your requirements.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		90	GHz
Impedance		50		Ohms
VSWR			1.3:1	
Insertion Loss			0.758	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms

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### FMAD10012

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:  
Insertion loss is  $= .08 * \text{SQRT}(F\text{GHz})\text{dB}$

#### Mechanical Specifications

##### Size

Length	0.26 in [6.68 mm]
Width	0.26 in [6.68 mm]
Height	0.69 in [17.45 mm]
Weight	0.01 lbs [3.18 g]

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

#### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.35mm Female		1.0mm Male	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PEI		PEI	
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 Conditon I
Vibration	Per MIL-STD-202, Method 204, Test Conditon D
Salt Spray	Per MIL-STD-202, Method 101, Test Conditon B, Solution 5%

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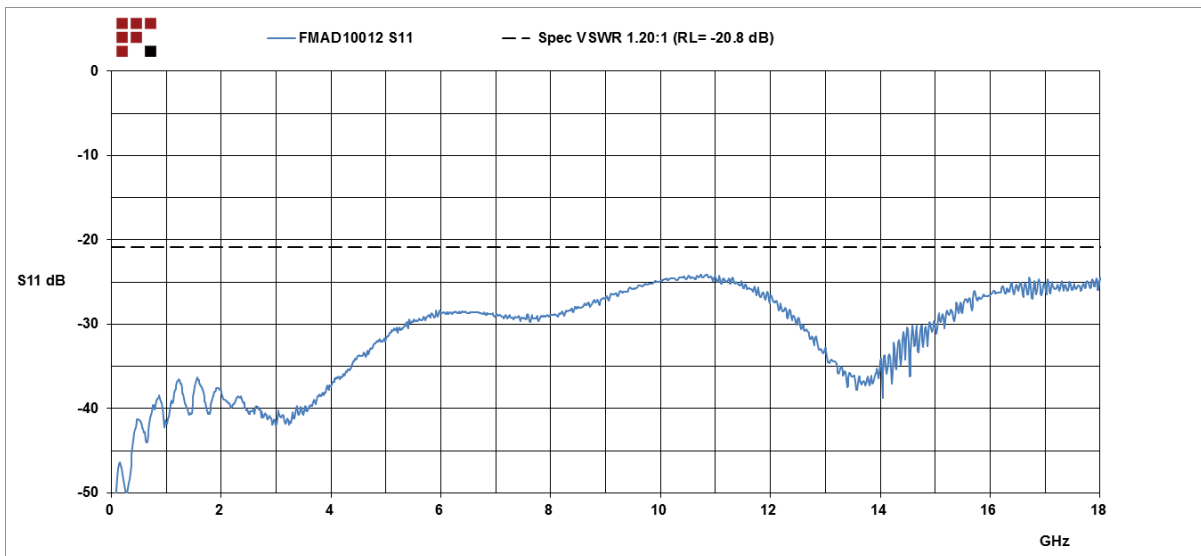


### FMAD10012

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

#### Plotted and Other Data

#### Typical Performance Data



1.35mm Female to 1.0mm Male 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.

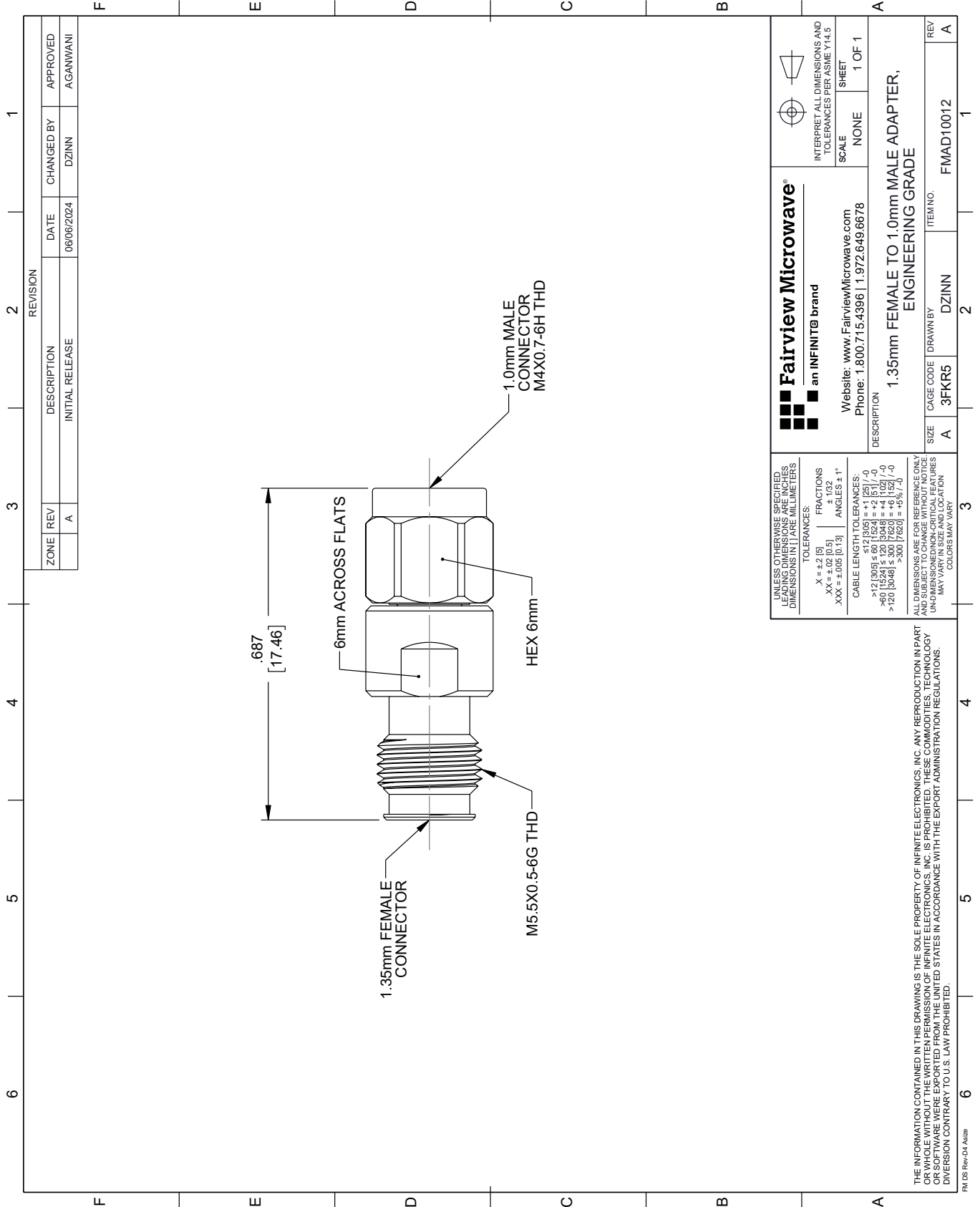
For additional information on this product, please click the following link: [1.35mm Female to 1.0mm Male Adapter, Engineering Grade FMAD10012](#)

URL: <https://www.fairviewmicrowave.com/1.35mm-female-to-1.0mm-male-adapter-with-passivated-stainless-steel-body-fmad10012-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.

# FMAD10012 CAD Drawing

1.35mm Female to 1.0mm Male Adapter, Engineering Grade



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/06/2024	DZINN	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 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] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES 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: 1.35mm FEMALE TO 1.0mm MALE ADAPTER, ENGINEERING GRADE

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DZINN	FMAD10012

REV: A

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