

Engineering Grade 3.5mm Male (Plug) to 3.5mm Female (Jack) Adapter with Stainless Steel Body

3.5mm male to 3.5mm female adapter part number FMAD1612 from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm adapter has a male to female gender configuration and is built of durable stainless steel in an engineering grade design. FMAD1612 3.5mm male to 3.5mm female adapter operates to 26.5 GHz. The 3.5mm connector mates mechanically with commercially available SMA and 2.92mm (K) connectors. Our 3.5mm to 3.5mm 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		26.5	GHz
VSWR		1.25:1		
DWV (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 4	4 to 8	8 to 12	12 to 26.5	GHz
Insertion Loss, Max	0.05	0.1	0.141	0.173	0.257	dB

Electrical Specification Notes:
 Values at sea level

Mechanical Specifications

Size

Length	0.92 in [23.30 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	3.5mm Male	3.5mm Female
Polarity	Standard	Standard
Mating Cycles, Min	500	
Mating Torque	7.1 to 9.7 in-lbs [0.80 to 1.10 Nm]	7.1 to 9.7 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	6.1 lbs [2.77 kg]	6.1 lbs [2.77 kg]



Configuration:

- 3.5mm Male Connector 1
- 3.5mm Female Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

Features:

- Gold Plated Beryllium Copper Contact
- Max VSWR of 1.25:1 up to 26.5 GHz

Applications:

- Connector Saver
- General Purpose Test

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

Material Specifications

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm 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

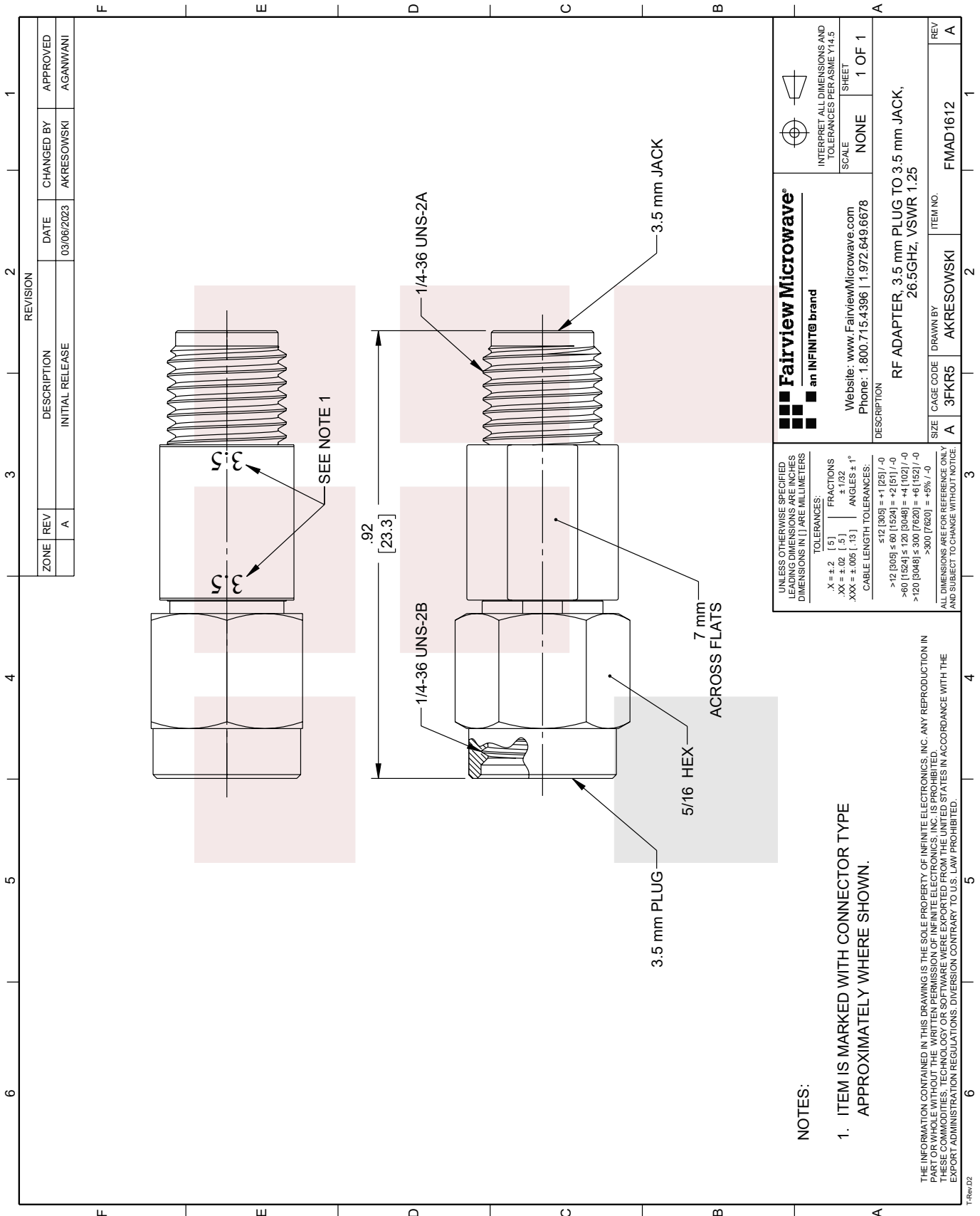
Notes:

Engineering Grade 3.5mm Male (Plug) to 3.5mm 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 3.5mm Male \(Plug\) to 3.5mm Female \(Jack\) Adapter with Stainless Steel Body FMAD1612](#)

URL: <https://www.fairviewmicrowave.com/3-5mm-male-to-3-5mm-female-adapter-mil-std-202-method-206-stainless-steel-engineering-grade-fmad1612-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.



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

<p>Fairview Microwave® an INFINITE® brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>	
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION: RF ADAPTER, 3.5 mm PLUG TO 3.5 mm JACK, 26.5GHz, VSWR 1.25			
SIZE: A	CAGE CODE: 3FKR5	DRAWN BY: AKRESOWSKI	ITEM NO.: FMAD1612
REV: A			REV: A

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS
 .XX = ±.02 [.5] ±.132
 .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.

- NOTES:
- ITEM IS MARKED WITH CONNECTOR TYPE APPROXIMATELY WHERE SHOWN.

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