



# Engineering Grade 1.85mm Female (Jack) to 2.4mm Female (Jack) Adapter with Stainless Steel Body

1.85mm female to 2.4mm female adapter part number FMAD1617 from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 2.4mm adapter has a female to female gender configuration and is built of durable stainless steel in a engineering grade design. FMAD1617 1.85mm female to 2.4mm female adapter operates to 50 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**

Min	Тур	Max	Units
DC		50	GHz
		1.3:1	
		150	Vrms
		500	Vrms
5,000			MOhms
		100	dB
	DC	DC	DC 50 1.3:1 150 500 5,000

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 5	5 to 10	10 to 20	20 to 50	GHz
Insertion Loss, Max	0.095	0.134	0.19	0.268	0.424	dB

## **Mechanical Specifications**

#### Size

Length	0.88 in [22.30 mm]
Width	0.31 in [7.90 mm]
Height	0.31 in [7.90 mm]
Weight	0.02 lbs [9.07 g]

Description	Connector 1	Connector 2
Туре	1.85mm Female	2.4mm Female
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	7.08 to 9.74 in-lbs	7.08 to 9.74 in-lbs
	[0.80 to 1.10 Nm]	[0.80 to 1.10 Nm]
Contact Captivation Axial Force, Min	4.5 lbs [2.04 kg]	4.5 lbs [2.04 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]



# **Configuration:**

- 1.85mm Female Connector 1
- 2.4mm Female Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

#### **Features:**

- VSWR of 1.3:1 max up to 50 GHz
- Gold Over Nickel Plated Beryllium Copper Contact

# **Applications:**

- Enables Between Series Connections
- General Purpose Test

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# **Material Specifications**

Description	Connector 1	Connector 2
Туре	1.85mm Female	2.4mm Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold Over Nickel	Gold Over Nickel
Insulation Material	PPO	PPO
Body Material	Stainless Steel	Stainless Steel
Body Plating	Passivated	Passivated
Coupling Nut Material	Stainless Steel	Stainless Steel
Coupling Nut Plating	Passivated	Passivated

## **Environmental Specifications**

**Temperature** 

Operating Range Humidity

Thermal Shock Salt Spray -65 to +165 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 1.85mm Female (Jack) 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 1.85mm Female (Jack) to 2.4mm Female (Jack) Adapter with Stainless Steel Body FMAD1617

URL: https://www.fairviewmicrowave.com/engineering-grade-1.85mm-female-to-2.4mm-female-adapter-mil-std-202-method-206-with-stainless-steel-body-fmad1617-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.

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