

## Engineering Grade 3.5mm Male (Plug) to 2.4mm Male (Plug) Adapter with Stainless Steel Body

3.5mm male to 2.4mm male adapter part number FMAD1630 from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 2.4mm adapter has a male to male gender configuration and is built of durable stainless steel in an engineering grade design. FMAD1630 3.5mm male to 2.4mm male adapter operates to 26.5 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum. The 3.5mm connector mates mechanically with commercially available SMA and 2.92mm (K) connectors. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) 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

| Description            | Min   | Typ | Max    | Units |
|------------------------|-------|-----|--------|-------|
| Frequency Range        | DC    |     | 26.5   | GHz   |
| VSWR                   |       |     | 1.25:1 |       |
| Operating Voltage (AC) |       |     | 150    | Vrms  |
| DWV (AC)               |       |     | 500    | Vrms  |
| Insulation Resistance  | 5,000 |     |        | MOhms |
| RF Leakage             |       |     | 100    | dB    |

### Specifications by Frequency

| Description         | F1      | F2     | F3       | F4       | F5        | Units |
|---------------------|---------|--------|----------|----------|-----------|-------|
| Frequency Range     | DC to 1 | 1 to 2 | 2 to 4.5 | 4.5 to 9 | 9 to 26.5 | GHz   |
| Insertion Loss, Max | 0.05    | 0.071  | 0.106    | 0.15     | 0.257     | dB    |

### Mechanical Specifications

|             |                    |
|-------------|--------------------|
| <b>Size</b> |                    |
| Length      | 1.02 in [26.00 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                              |
|--------------------------------------|----------------------------------------|------------------------------------------|
| Type                                 | 3.5mm Male                             | 2.4mm Male                               |
| Polarity                             | Standard                               | Standard                                 |
| Mating Cycles, Min                   | 500                                    | 500                                      |
| Mating Torque                        | 7.1 to 9.7 in-lbs<br>[0.80 to 1.10 Nm] | 7.08 to 9.74 in-lbs<br>[0.80 to 1.10 Nm] |
| Contact Captivation Axial Force, Min | 6.1 lbs [2.77 kg]                      | 4.5 lbs [2.04 kg]                        |
| Coupling Proof Torque                | 15 in-lbs [1.7 Nm]                     | 15 in-lbs [1.7 Nm]                       |



### Configuration:

- 3.5mm Male Connector 1
- 2.4mm Male Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

### Features:

- VSWR of 1.25:1 max up to 26.5 GHz
- Gold Over Nickel Plated Beryllium Copper Contact

### Applications:

- Enables Between Series Connections
- General Purpose Test

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Coupling Retention, Min                      60.7 lbs [27.53 kg]                      60.7 lbs [27.53 kg]

### Material Specifications

| Description            | Connector 1      | Connector 2      |
|------------------------|------------------|------------------|
| Type                   | 3.5mm Male       | 2.4mm Male       |
| Contact Material       | Beryllium Copper | Beryllium Copper |
| Contact Plating        | Gold Over Nickel | Gold Over Nickel |
| Insulation Material    | PPO              | PPO              |
| Outer Contact Material | Stainless Steel  | Stainless Steel  |
| Outer Contact Plating  | Passivated       | Passivated       |
| Body Material          | Stainless Steel  | Stainless Steel  |
| Body Plating           | Passivated       | Passivated       |
| Gasket Material        | Silicone         | Silicone         |
| Coupling Nut Material  | Stainless Steel  | Stainless Steel  |
| Coupling Nut Plating   | Passivated       | Passivated       |

### Environmental Specifications

#### Temperature

Operating Range

-55 to +105 deg C

Humidity

MIL-STD-202, Method 206

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

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 2.4mm Male (Plug) 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 2.4mm Male \(Plug\) Adapter with Stainless Steel Body FMAD1630](#)

URL: <https://www.fairviewmicrowave.com/engineering-grade-3.5mm-male-to-2.4mm-male-adapter-mil-std-202-method-206-with-stainless-steel-body-fmad1630-p.aspx>

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