

Engineering Grade 2.92mm Female (Jack) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body



FMAD10177

Configuration

- 2.92mm Female Connector 1
- Full Detent Mini SMP Male Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

Features

- VSWR of 1.3:1 max up to 40 GHz
- 2.92mm interface meets MIL-STD-348B
- Mini SMP interface meets MIL-STD-348B
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

Applications

- Enables Between Series Connections
- General Purpose Test

Description

2.92mm female to Mini SMP male full detent adapter part number FMAD10177 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to Mini SMP adapter has a female to male gender configuration and is built of durable stainless steel in a engineering grade design. FMAD10177 2.92mm female to Mini SMP male adapter operates to 40 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm 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 | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | | 1.3:1 | |
| Insertion Loss | | | 0.316 | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 500 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Electrical Specification Notes:
Insertion loss = 0.05*SQRT(FGHz) dB

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.88 in [22.38 mm] |
| Width | 0.35 in [8.99 mm] |
| Height | 0.35 in [8.99 mm] |

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| | |
|--------|--------------------|
| Weight | 0.05 lbs [22.68 g] |
|--------|--------------------|

| Description | Connector 1 | Connector 2 |
|--------------------------------------|--------------------------|--------------------|
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348B | MIL-STD-348B |
| Mating Cycles, Min | 500 | 100 |
| Mating Torque | 11.47 in-lbs 1.30 Nm max | |
| Contact Captivation Axial Force, Min | 4.9 lbs [2.22 kg] | 1.5 lbs [680.39 g] |
| Coupling Proof Torque | 15 in-lbs [1.7 Nm] | |

Mechanical Specification Notes:
Engagement Force: 3.5lbs typ
Disengagement Force: 5.0lbs typ

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|----------------------------|------------------------------------|----------------------------|------------------------------------|
| | Material | Plating | Material | Plating |
| Type | 2.92mm Female | | Full Detent Mini SMP Male | |
| Contact | Beryllium Copper | Gold over Nickel Alloy over Copper | Beryllium Copper | Gold over Nickel Alloy over Copper |
| Insulation | PTFE | | PPO | |
| Outer Conductor | Passivated Stainless Steel | | Passivated Stainless Steel | |
| Body | Passivated Stainless Steel | | Passivated Stainless Steel | |

Environmental Specifications

Temperature

| | |
|-----------------|--------------------------------------|
| Operating Range | -55 to +105 °C |
| Humidity | MIL-STD-202, Method 106 |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |
| Salt Spray | MIL-STD-202, Method 101, Condition B |

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

Plotted and Other Data

Engineering Grade 2.92mm Female (Jack) to Mini SMP Male (Plug) Full Detent Adapter with Passivated 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.

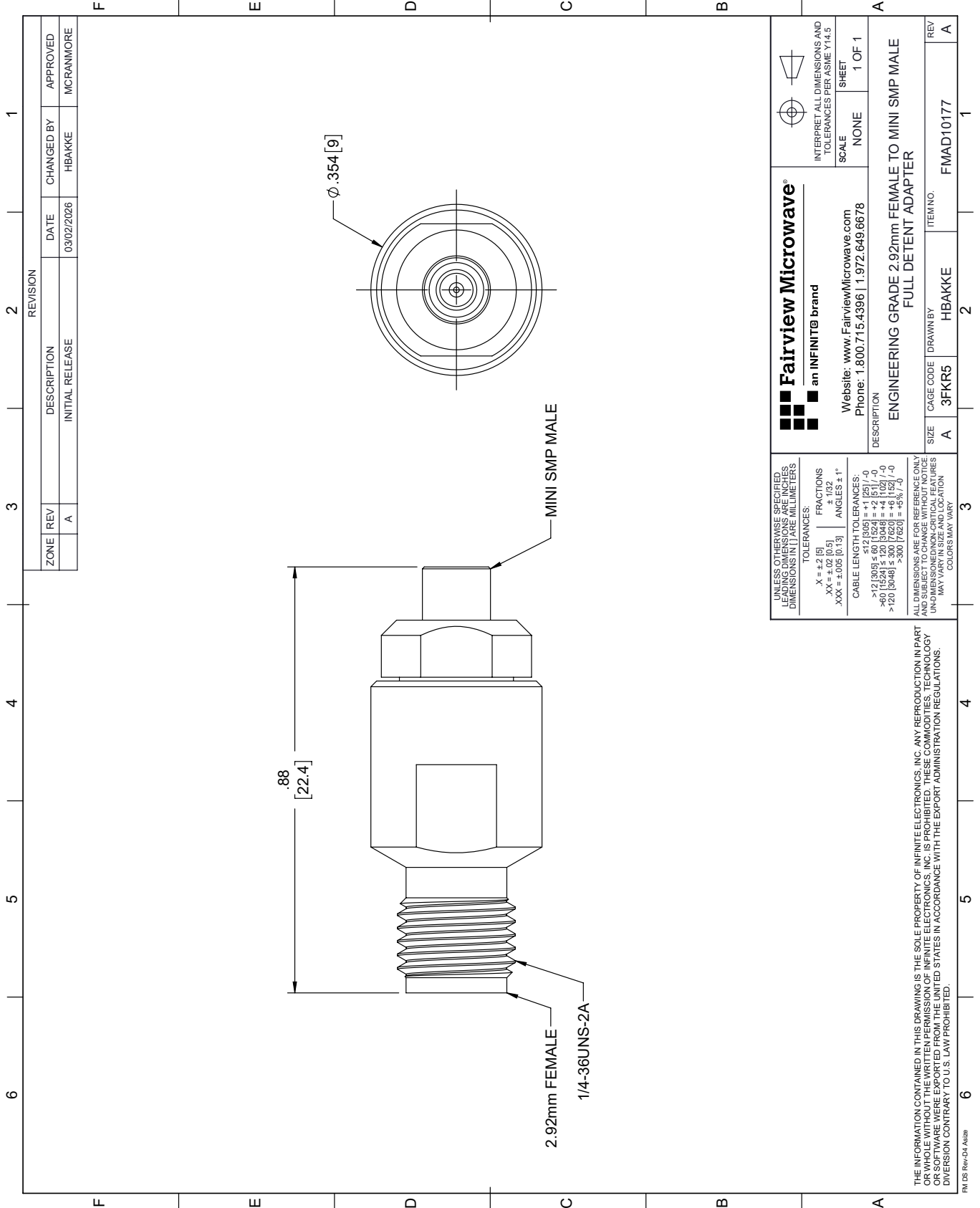
For additional information on this product, please click the following link: [Engineering Grade 2.92mm Female \(Jack\) to Mini SMP Male \(Plug\) Full Detent Adapter with Passivated Stainless Steel Body FMAD10177](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/engineering-grade-2.92mm-female-to-mini-smp-male-full-detent-adapter-mil-std-202-method-106-with-passivated-stainless-steel-body-fmad10177.html>

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FMAD10177 CAD Drawing

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| REVISION | | DATE | CHANGED BY | APPROVED | |
|----------|-----|-----------------|------------|------------|-----------|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| | A | INITIAL RELEASE | 03/02/2026 | HBAKKE | MCRANMIRE |

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SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: ENGINEERING GRADE 2.92mm FEMALE TO MINI SMP MALE FULL DETENT ADAPTER

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: HBAKKE
ITEM NO.: FMAD10177

REV: A

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.1 [25] / -0
 >300 [7620] = ±.5 [12.7]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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