

Engineering Grade 2.92mm Female (Jack) to SMP Female (Jack) Push-On Adapter



FMAD10161

Configuration

- 2.92mm Female Connector 1
- Push-On SMP Female 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
- 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 SMP female push-on adapter part number FMAD10161 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to SMP adapter has a female to female gender configuration in a engineering grade design. FMAD10161 2.92mm female to SMP female 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			0.379	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion loss = $0.06 \cdot \sqrt{\text{FGHz}}$ dB

Mechanical Specifications

Size

Length	1.02 in [25.88 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	
Mating Torque	11.47 in-lbs 1.30 Nm max	
Contact Captivation Axial Force, Min	4.9 lbs [2.22 kg]	
Coupling Proof Torque	50 in-lbs [5.65 Nm]	

Mechanical Specification Notes:

Engagement Force: ≤15 lbs (Full Detent), ≤10 lbs (Limited Detent), ≤2 lbs (Smooth Bore & Catchers mitt)
 Disengagement Force: ≥5 lbs (Full Detent), ≥2 lbs (Limited Detent), ≥0.5 lbs (Smooth Bore & Catchers mitt)
 Durability (Mating): ≥100 (Full Detent), ≥500 (Limited Detent), ≥1000 (Smooth Bore & Catchers mitt) Axial
 Misalignment: +0.00/-0.25(+.000/- .010)
 Radial Misalignment: +/-0.25(0.010)

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	2.92mm Female		Push-On SMP Female	
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PPO		PPO	
Outer Conductor	Passivated Stainless Steel		Beryllium Copper	Gold over Nickel Alloy over Copper
Body	Passivated Stainless Steel		Beryllium Copper	Gold over Nickel Alloy over Copper

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 SMP Female (Jack) Push-On Adapter 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.

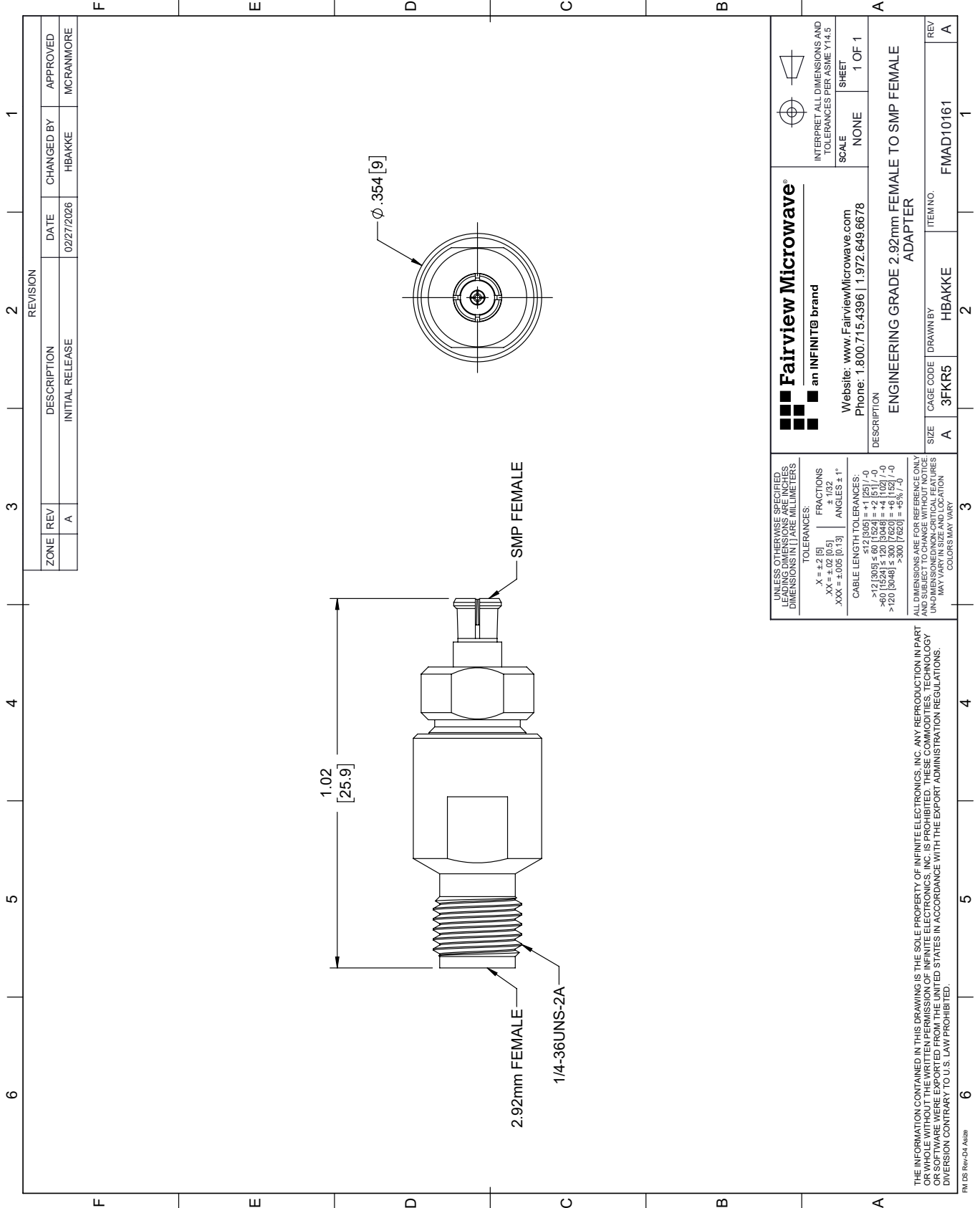
For additional information on this product, please click the following link: [Engineering Grade 2.92mm Female \(Jack\) to SMP Female \(Jack\) Push-On Adapter FMAD10161](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/engineering-grade-2.92mm-female-to-smp-female-push-on-adapter-mil-std-202-method-106-with-beryllium-copper-body-fmad10161.html>

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.

FMAD10161 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	02/27/2026	HBAKKE	MCRANMORRE

 Fairview Microwave an INFINIT® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION ENGINEERING GRADE 2.92mm FEMALE TO SMP FEMALE ADAPTER		CAGE CODE: 3FKR5 DRAWN BY: HBAKKE ITEM NO.: FMAD10161	REV: A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE 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 [127] / -0
 >300 [7620] = +5 [127] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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