

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



FMAD10183

Configuration

- 2.92mm Female Connector 1
- Push-On Mini 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
- 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 female push-on adapter part number FMAD10183 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to Mini SMP adapter has a female to female gender configuration in a engineering grade design. FMAD10183 2.92mm female to Mini 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			0.316	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	0.90 in [22.78 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	15 in-lbs [1.7 Nm]	

Mechanical Specification Notes:

Engagement Force: 3.5 lbs typ (Full Detent), 1.5 lbs typ (Smooth Bore)
 Disengagement Force: 5.0 lbs typ (Full Detent), 1.5 lbs typ (Smooth Bore)
 Durability (Mating): ≥100 (Full Detent), ≥1000 (Smooth Bore)
 Contact Captivation-axial: ≥1.5 lbs (Full Detent), ≥1.5 lbs (Smooth Bore)

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	2.92mm Female		Push-On Mini SMP Female	
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		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 Mini 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.

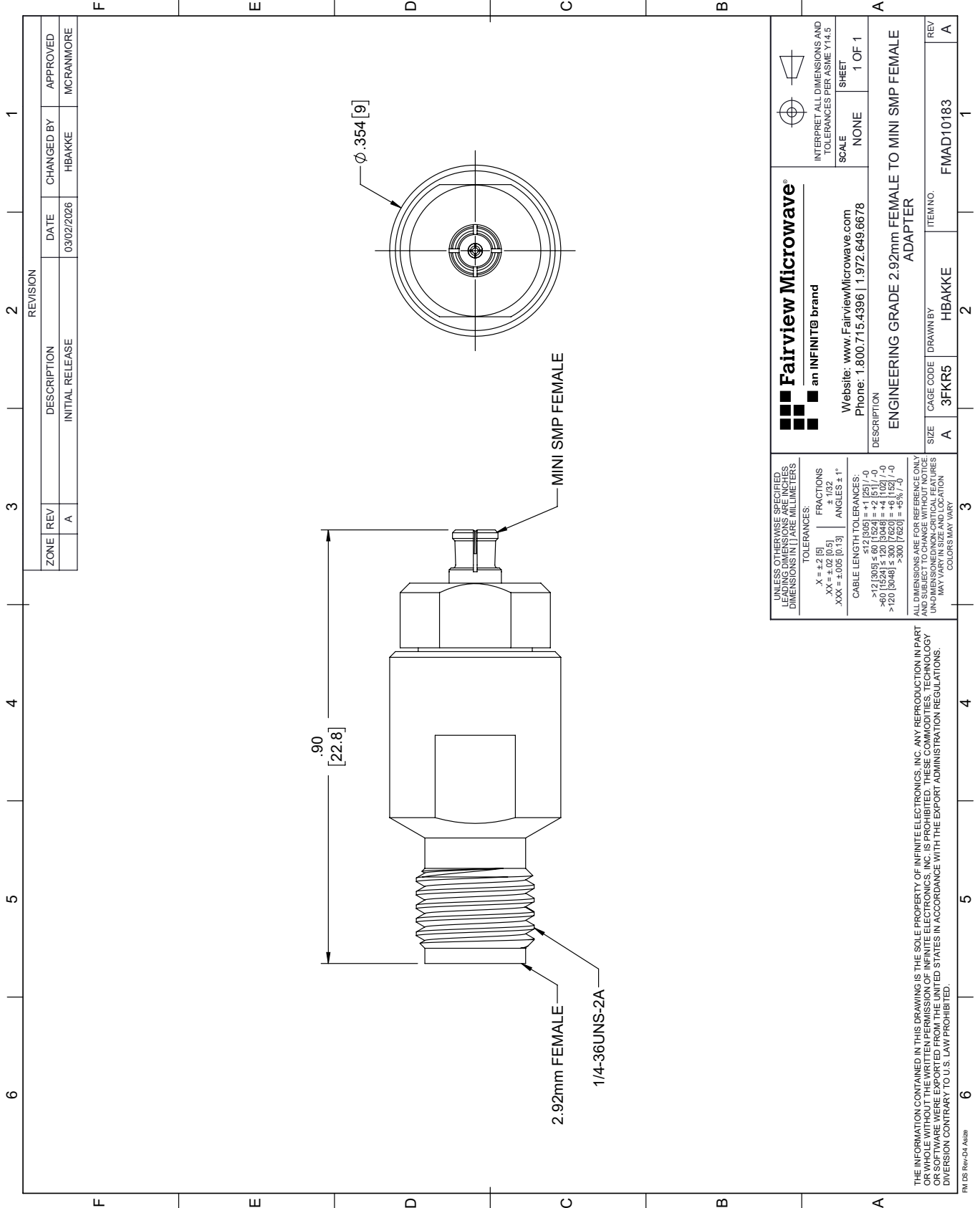
For additional information on this product, please click the following link: [Engineering Grade 2.92mm Female \(Jack\) to Mini SMP Female \(Jack\) Push-On Adapter FMAD10183](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/engineering-grade-2.92mm-female-to-mini-smp-female-push-on-adapter-mil-std-202-method-106-with-beryllium-copper-body-fmad10183.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.

FMAD10183 CAD Drawing

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

Fairview Microwave
an INFINITI® 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 MINI SMP FEMALE ADAPTER

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: HBAKKE
ITEM NO.: FMAD10183

REV: A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. 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 CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt26