Bulkhead SMA Male (Plug) to N Female (Jack) Adapter with Passivated Stainless Steel Body

FMAD10141

Configuration
- SMA Male Connector 1
- N Female Connector 2
- 50 Ohms Impedance
- Straight Body Geometry
- Bulkhead Mount Method

Features
- VSWR of 1.15:1 max up to 18 GHz
- Rated IP67
- Gold over Nickel Plated Beryllium Copper Contact

Applications
- Enables Between Series Connections
- General Purpose Test
- Rack Mounted Equipment

Description
Bulkhead SMA male to type N female bulkhead adapter part number FMAD10141 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N adapter has a male to female gender configuration and is built of durable stainless steel. FMAD10141 SMA male to type N female adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.15:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our RF SMA bulkhead to type N bulkhead adapter allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		18	GHz
Impedance		50		Ohms
VSWR			1.15:1	
Insertion Loss			0.16	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	1.60 in [40.64 mm]
Width	0.87 in [22.00 mm]
Height	0.87 in [22.00 mm]
Weight	0.08 lbs [38.10 g]

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Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	7 to 9.5 in-lbs 0.79 to 1.07 Nm	6 to 10 in-lbs 0.68 to 1.13 Nm
Contact Captivation Axial Force, Min	6.3 lbs [2.86 kg]	6.3 lbs [2.86 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]
Coupling Retention, Min	60.7 lbs [27.53 kg]	

Material Specifications

	Connector 1		Connector 2	
Description	Material	Plating	Material	Plating
Type	SMA Male		N Female	
Contact	Beryllium Copper	Gold over Nickel	Beryllium Copper	Gold over Nickel
Insulation	PTFE		PTFE	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	
Washer	Brass	Copper-Tin-Zinc Alloy	Brass	Copper-Tin-Zinc
Coupling Nut	Brass	Copper-Tin-Zinc Alloy	Brass	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature

Operating Range	-65 to +165 ºC
Ingress Protection (IP) Rating	IP67
Humidity	MIL-STD-202, Method 206
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

Bulkhead SMA Male (Plug) to N Female (Jack) 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: Bulkhead SMA Male (Plug) to N Female (Jack) Adapter with Passivated Stainless Steel Body FMAD10141

URL: https://www.fairviewmicrowave.com/product/rf-adapters/bulkhead-sma-male-to-n-female-adapter-with-passivated-stainless-steel-body-fmad10141.html

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FMAD10141 CAD Drawing

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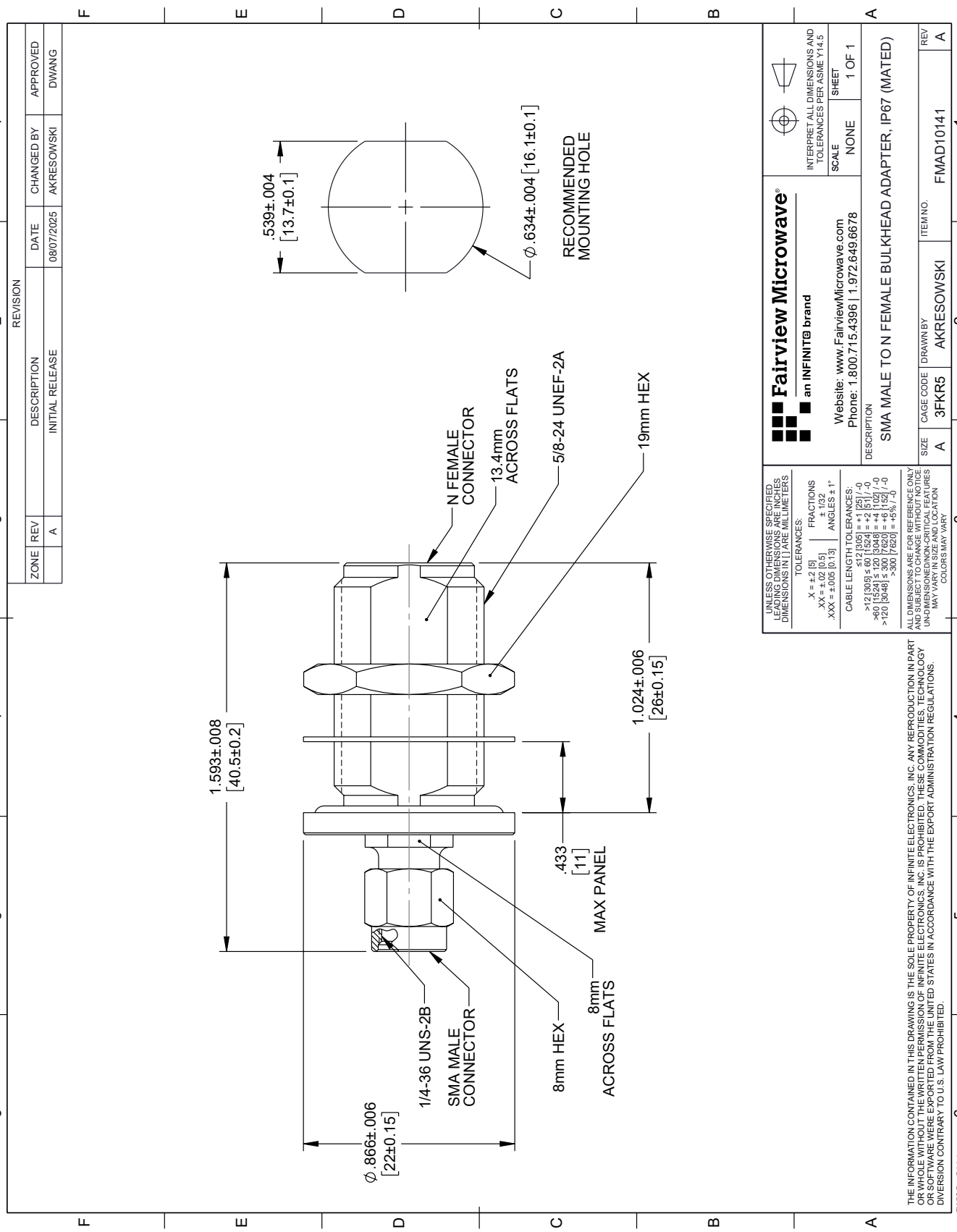

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