

1.0mm Female (Jack) to 1.0mm Female (Jack) Adapter with Passivated Stainless Steel Body



FMAD10138

Configuration

- 1.0mm Female Connector 1
- 1.0mm Female Connector 2

Features

- VSWR of 1.4:1 max up to 110 GHz
- 50 Ohms Impedance
- Straight Body Geometry
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

1.0mm female to 1.0mm female adapter part number FMAD10138 from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm adapter has a female to female gender configuration and is built of durable stainless steel. FMAD10138 1.0mm female to 1.0mm female adapter operates to 110 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.4:1 maximum.

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		110	GHz
Impedance		50		Ohms
VSWR			1.4:1	
Insertion Loss			0.52	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			90	dB

Mechanical Specifications

Size

Length	0.44 in [11.20 mm]
Width	0.24 in [5.99 mm]
Height	0.24 in [5.99 mm]
Weight	0.01 lbs [4.54 g]

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Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	2.65 to 3.63 in-lbs 0.30 to 0.41 Nm	2.65 to 3.63 in-lbs 0.30 to 0.41 Nm
Contact Captivation Axial Force, Min	2.25 lbs [1.02 kg]	2.25 lbs [1.02 kg]
Coupling Proof Torque	6.2 in-lbs [0.7 Nm]	6.2 in-lbs [0.7 Nm]

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.0mm Female		1.0mm Female	
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PPO		PPO	
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

Compliance Certifications (see product page for current document)

Plotted and Other Data

1.0mm Female (Jack) to 1.0mm 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: [1.0mm Female \(Jack\) to 1.0mm Female \(Jack\) Adapter with Passivated Stainless Steel Body FMAD10138](https://www.fairviewmicrowave.com/product/rf-adapters/1.0mm-female-to-1.0mm-female-adapter-with-passivated-stainless-steel-body-fmad10138.html)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/1.0mm-female-to-1.0mm-female-adapter-with-passivated-stainless-steel-body-fmad10138.html>

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FMAD10138 CAD Drawing

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