

30 Degree Angle 1.85mm Plug (Male) to 1.85mm Jack (Female) Adapter with Passivated Stainless Steel Body



FMAD10105

Configuration

- 1.85mm Plug Connector 1
- 1.85mm Jack Connector 2
- 50 Ohms Impedance
- 30 Degree Body Geometry

Features

- VSWR of 1.35:1 max up to 67 GHz
- Gold Over Nickel-Phosphorus Alloy Over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

30 degree angle 1.85mm plug to 1.85mm jack adapter part number FMAD10105 from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm adapter has a plug to jack gender configuration and is built of durable stainless steel. FMAD10105 1.85mm plug to 1.85mm jack adapter operates to 67 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.35:1 maximum. The 1.85mm connector mates mechanically with commercially available 2.4mm connectors. This 30 degree 1.85mm adapter allows for easier connections in tight spaces.

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		67	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			0.654	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

Mechanical Specifications

Size

Length	0.97 in [24.61 mm]
Width	0.31 in [7.94 mm]
Height	0.50 in [12.80 mm]
Weight	0.01 lbs [6.08 g]

30 Degree Angle 1.85mm Plug (Male) to 1.85mm Jack (Female) Adapter with Passivated Stainless Steel Body



FMAD10105

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	7.08 to 9.74 in-lbs 0.80 to 1.10 Nm	7.08 to 9.74 in-lbs 0.80 to 1.10 Nm
Contact Captivation Axial Force, Min	4.5 lbs [2.04 kg]	4.5 lbs [2.04 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.85mm Plug		1.85mm Jack	
Contact	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper
Insulation	PPO		PPO	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	

Environmental Specifications

Temperature

Operating Range

-55 to +105 °C

Humidity

MIL-STD-202, Method 206

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

30 Degree Angle 1.85mm Plug (Male) to 1.85mm Jack (Female) 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: [30 Degree Angle 1.85mm Plug \(Male\) to 1.85mm Jack \(Female\) Adapter with Passivated Stainless Steel Body FMAD10105](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/30-degree-angle-1.85mm-plug-to-1.85mm-jack-adapter-mil-std-202-method-206-with-passivated-stainless-steel-body-fmad10105.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.

FMAD10105 CAD Drawing

30 Degree Angle 1.85mm Plug (Male) to 1.85mm Jack (Female) Adapter with Passivated Stainless Steel Body

