

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



FMAD10117

Configuration

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

Features

- VSWR of 1.15:1 max up to 27 GHz
- Gold Over Nickel-Phosphorus Alloy Over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

30 degree angle SMA plug to SMA jack adapter part number FMAD10117 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a plug to jack gender configuration and is built of durable stainless steel. FMAD10117 SMA plug to SMA jack adapter operates to 27 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. This 30 degree SMA 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		27	GHz
Impedance		50		Ohms
VSWR			1.15:1	
Insertion Loss			0.311	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.97 in [24.69 mm]
Width	0.31 in [7.94 mm]
Height	0.52 in [13.11 mm]
Weight	0.02 lbs [6.80 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	7 to 9.5 in-lbs 0.79 to 1.07 Nm
Contact Retention Force, Min	60.7 lbs [27.53 kg]	60.7 lbs [27.53 kg]
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 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	SMA Plug		SMA Jack	
Contact	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper
Insulation	PTFE		PTFE	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	

Environmental Specifications

Temperature

Operating Range

-65 to +165 °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 SMA Plug (Male) to SMA 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 SMA Plug \(Male\) to SMA Jack \(Female\) Adapter with Passivated Stainless Steel Body FMAD10117](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/30-degree-angle-sma-plug-to-sma-jack-adapter-mil-std-202-method-206-with-passivated-stainless-steel-body-fmad10117.html>

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FMAD10117 CAD Drawing

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