

## SMA Male (Plug) to TNC Male (Plug) Adapter MIL-STD-202, Method with Passivated Stainless Steel Body



### FMAD10027

#### Configuration

- SMA Male Connector 1
- TNC Male Connector 2

- 50 Ohms Impedance
- Straight Body Geometry

#### Features

- VSWR of 1.2:1 max up to 18 GHz
- SMA interface meets MIL-STD-348B

- TNC interface meets MIL-STD-348B
- Gold over Nickel over Copper Plated Beryllium Copper Contact

#### Applications

- Enables Between Series Connections
- General Purpose Test

#### Description

SMA male to TNC male adapter part number FMAD10027 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC adapter has a male to male gender configuration and is built of durable stainless steel. FMAD10027 SMA male to TNC male adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) 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		18	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Insertion Loss			0.21	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length	1.11 in [28.19 mm]
Width	0.55 in [14.00 mm]
Height	0.55 in [14.00 mm]
Weight	0.04 lbs [18.14 g]

Description	Connector 1	Connector 2
Polarity		Standard

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Description	Connector 1	Connector 2
Interface Specification	MIL-STD-348B	MIL-STD-348B
Mating Cycles, Min	500	500
Mating Torque	7 to 9.5 in-lbs 0.79 to 1.07 Nm	4.1 to 6.1 in-lbs 0.46 to 0.69 Nm
Contact Retention Force, Min	60.7 lbs [27.53 kg]	101.2 lbs [45.9 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]	6.1 in-lbs [0.69 Nm]

### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		TNC Male	
Contact	Beryllium Copper	Gold over Nickel over Copper	Beryllium Copper	Gold over Nickel over Copper
Outer Conductor	Passivated Stainless Steel		Passivated Stainless Steel	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 °C

Humidity

MIL-STD-202, Method

Thermal Shock

MIL-STD-202, Method

Salt Spray

MIL-STD-202, Method

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

SMA Male (Plug) to TNC Male (Plug) Adapter MIL-STD-202, Method 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: [SMA Male \(Plug\) to TNC Male \(Plug\) Adapter MIL-STD-202, Method with Passivated Stainless Steel Body FMAD10027](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-tnc-male-adapter-mil-std-202-method-with-passivated-stainless-steel-body-fmad10027-p.aspx>

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FMAD10027 CAD Drawing

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