

SMA Female to TNC Female Adapter

PE910037



Configuration

- SMA Female Connector 1
- TNC Female Connector 2
- 50 Ohms Impedance
- Straight Body Geometry

Features

- SMA interface compliant with MIL-STD-348B
- TNC interface compliant with MIL-STD-348B
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE910037 SMA female to TNC female adapter is part of our full line of RF components available for same-day shipping. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to TNC adapter has a female to female gender configuration built of durable stainless steel. PE910037 SMA female to TNC female adapter operates to 18 GHz.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/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. Pasternack 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			0.212	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	0.43 in [10.92 mm]
Height	0.43 in [10.92 mm]
Weight	0.03 lbs [14.06 g]

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	MIL-STD-348B	MIL-STD-348B

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Description	Connector 1	Connector 2
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 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 Female		TNC Female	
Contact	Beryllium Copper	Gold over Nickel over Copper	Beryllium Copper	Gold over Nickel over Copper
Insulation	PTFE		PTFE	
Body	Stainless Steel	Passivated	Stainless Steel	Passivated

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 Female to TNC Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to TNC Female Adapter PE910037](#)

URL: <https://www.pasternack.com/sma-female-to-tnc-female-adapter-pe910037.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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE910037 CAD Drawing
SMA Female to TNC Female Adapter

