



SMA Male to TNC Female Adapter

RF Adapters Technical Data Sheet

PE9078

Configuration

- SMA Male Connector 1
- TNC Female Connector 2

- 50 Ohms
- Straight Body Geometry

Features

- Max VSWR of 1.3:1 up to 11 GHz
- SMA and TNC Interface compliant with MIL-STD-348A

- Gold Plated Beryllium Copper Contact
- 50 μ -in min. Gold Contact Plating

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE9078 SMA male 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 male to female gender configuration. PE9078 SMA male to TNC female adapter operates to 11 GHz. The Pasternack RF adapter provides good VSWR of 1.3:1 maximum.

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 | | 11 | GHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 500 | Vrms |

Mechanical Specifications

Size

| | |
|--------|---------------------|
| Length | 1.03 in [26.16 mm] |
| Width | 0.5 in [12.7 mm] |
| Height | 0.5 in [12.7 mm] |
| Weight | 0.025 lbs [11.34 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Adapter PE9078](#)



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| Description | Connector 1 | Connector 2 |
|-------------------------|---------------------------------|--------------|
| Type | SMA Male | TNC Female |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348A | MIL-STD-348A |
| Hex Size | 5/16 in. | |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] | |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|----------------------------|----------------------------|----------------------------|-------------------------|
| | Material | Plating | Material | Plating |
| Type | SMA Male | | TNC Female | |
| Contact | Beryllium Copper | Gold 50µ in. minimum | Beryllium Copper | Gold 50µ in. minimum |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | | | Passivated Stainless Steel | |
| Body | Passivated Stainless Steel | | | |
| Gasket | Silicone | | | |
| Coupling Nut | Brass | Nickel 100µ in. minimum | | |

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Compliance Certifications

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

Plotted and Other Data

Notes:

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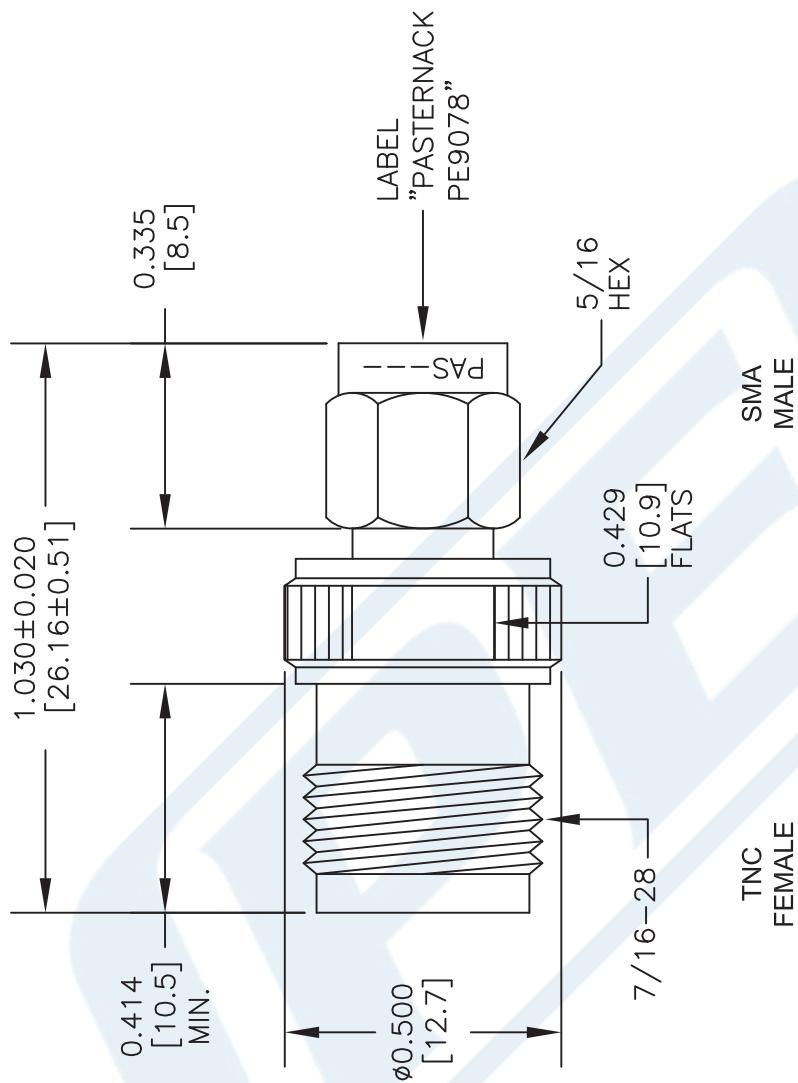
SMA Male to TNC Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Adapter PE9078](#)

URL: <https://www.pasternack.com/sma-male-tnc-female-straight-adapter-pe9078-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE9078 CAD Drawing
SMA Male to TNC Female Adapter



STANDARD TOLERANCES

| | |
|------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



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| DWG TITLE | FSCM NO. | CAD FILE | SCALE | SIZE | DRAWN BY |
|---------------|----------|----------|-------|------|----------|
| PE9078 | 53919 | 071516 | N/A | A | 2233 |

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].