



SMA Female to 2.4mm Male Adapter

RF Adapters Technical Data Sheet

PE9655

Configuration

- SMA Female Connector 1
- 2.4mm Male Connector 2
- 50 Ohms
- Straight Body Geometry

Features

- Max VSWR of 1.2:1 up to 27 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE9655 SMA female to 2.4mm male 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. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. Our SMA to 2.4mm adapter has a female to male gender configuration. PE9655 SMA female to 2.4mm male adapter operates to 27 GHz. The Pasternack RF adapter provides excellent VSWR of 1.2:1 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 | | 27 | GHz |
| VSWR | | | 1.2:1 | |
| Insertion Loss | | | 0.26 | dB |

Electrical Specification Notes:
Values at 25°C, sea level.
Insertion Loss (dB) = $0.05 \cdot \sqrt{f(\text{GHz})}$.

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 0.772 in [19.61 mm] |
| Width | 0.312 in [7.92 mm] |
| Weight | 0.006 lbs [2.72 g] |

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 2.4mm Male Adapter PE9655](#)



SMA Female to 2.4mm Male Adapter

RF Adapters Technical Data Sheet

PE9655

| Description | Connector 1 | Connector 2 |
|---------------|----------------------------------|-------------|
| Type | SMA Female | 2.4mm Male |
| Polarity | Standard | Standard |
| Mating Cycles | 500 | 500 |
| Hex Size | | 5/16 in. |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] | |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| | Material | Plating | Material | Plating |
| Type | SMA Female | | 2.4mm Male | |
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Insulation | PTFE | | Oxide-Noryl | |
| Outer Conductor | Passivated Stainless Steel | ASTM A380 | | |
| Body | | | Passivated Stainless Steel | ASTM A380 |
| Coupling Nut | | | Passivated Stainless Steel | ASTM A380 |

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

Vibration
Salt Spray

MIL-STD-202, Method 204, Cond. D (20G's)
MIL-STD-202, Method 101, Cond. B, 5% salt solution

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

Plotted and Other Data

Notes:

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 2.4mm Male Adapter PE9655](#)



SMA Female to 2.4mm Male Adapter

RF Adapters Technical Data Sheet

PE9655

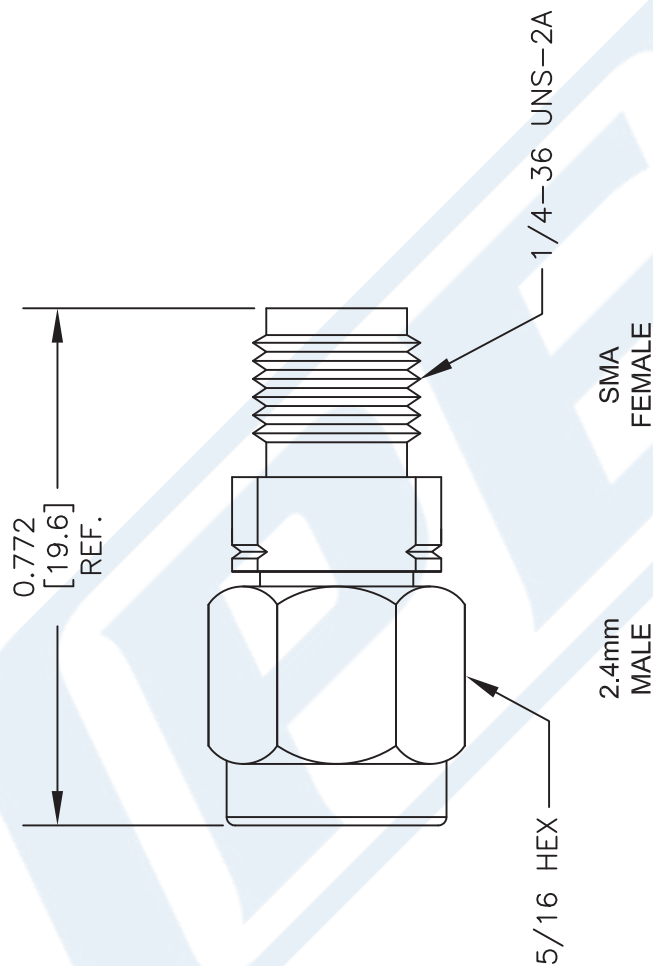
SMA Female to 2.4mm Male Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to 2.4mm Male Adapter PE9655](https://www.pasternack.com/sma-female-2.4mm-male-straight-adapter-pe9655-p.aspx)

URL: <https://www.pasternack.com/sma-female-2.4mm-male-straight-adapter-pe9655-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.

PE9655 CAD Drawing
SMA Female to 2.4mm Male Adapter



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE9655

FSCM NO. 53919

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].

CAD FILE 082416

SCALE N/A

SIZE A

41742