



SMA Male to SMA Female Miter Right Angle Adapter

RF Adapters Technical Data Sheet

PE91149

Configuration

- SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohm
- Miter Right Angle Body Geometry

Features

- Max VSWR of 1.35:1 up to 27 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

Pasternack's PE91149 SMA male to SMA female miter right angle 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 SMA adapter has a male to female gender configuration. PE91149 SMA male to SMA female adapter operates to 27 GHz. The Pasternack RF adapter provides good VSWR of 1.35:1 maximum. This miter right angle SMA to SMA adapter allows for easier connections in tight spaces.

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 | | | 1.35:1 | |
| 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 | 0.47 in [11.94 mm] |
| Width | 0.517 in [13.13 mm] |
| Weight | 0.0163 lbs [7.39 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 SMA Female Miter Right Angle Adapter PE91149](#)



SMA Male to SMA Female Miter Right Angle Adapter

RF Adapters Technical Data Sheet

PE91149

| Description | Connector 1 | Connector 2 |
|---------------|----------------------------------|-------------|
| Type | SMA Male | SMA Female |
| 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 Male | | SMA Female | |
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Insulation | PTFE | | PTFE | |
| 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 °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 Male to SMA Female Miter Right Angle Adapter PE91149](#)



SMA Male to SMA Female Miter Right Angle Adapter

RF Adapters Technical Data Sheet

PE91149

SMA Male to SMA Female Miter Right Angle 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.

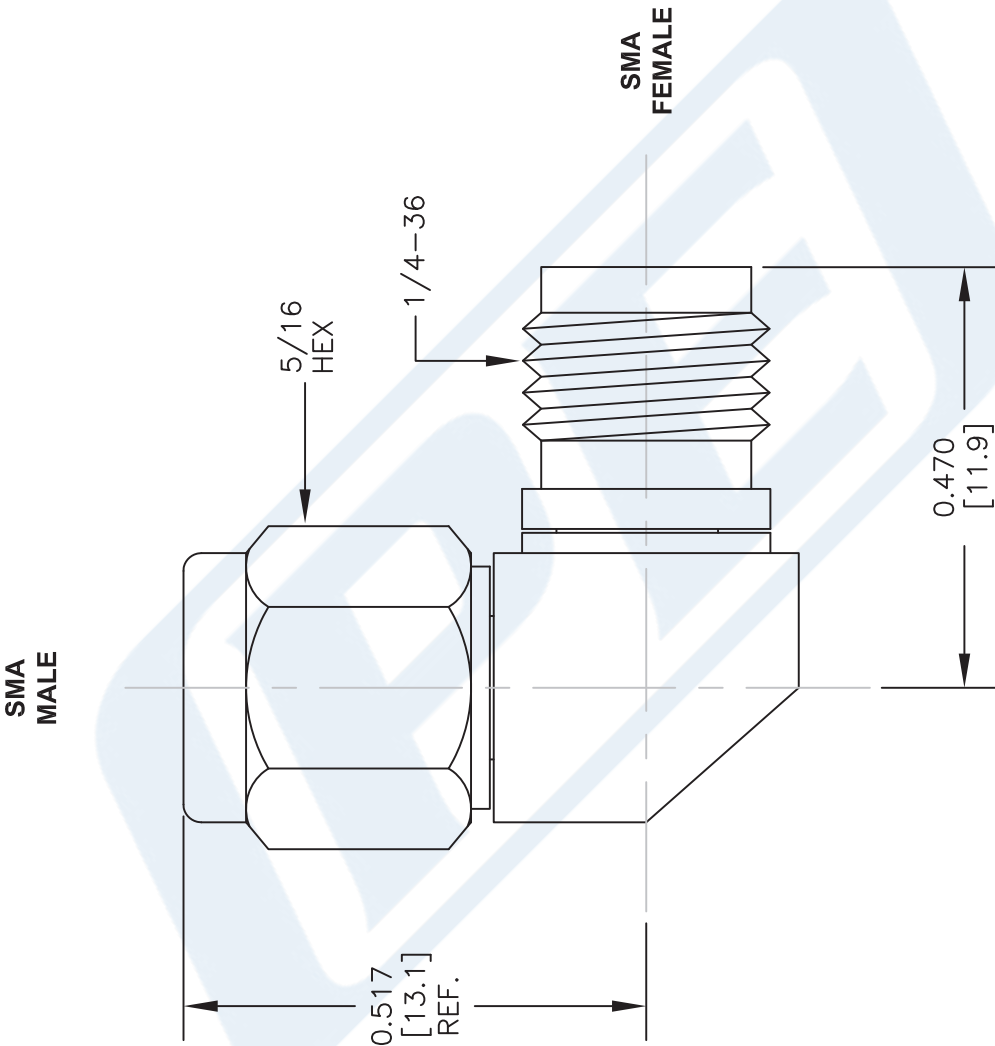
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Miter Right Angle Adapter PE91149](https://www.pasternack.com/sma-male-sma-female-right-angle-adapter-pe91149-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-female-right-angle-adapter-pe91149-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.

PE91149 CAD Drawing

SMA Male to SMA Female Miter Right Angle Adapter



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

| | |
|-----------|---------|
| DWG TITLE | PE91149 |
| FSCM NO. | 53919 |



PASTERNACK®

THE ENGINEER'S RF SOURCE

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