

12 dB Fixed Attenuator, SMA Male to SMA Female Brass  
Body Rated to 2 Watts From 0.009 MHz to 6 GHz



**PE70A1014**

**Features**

- 9 kHz to 6 GHz Frequency Range
- Attenuation 12±0.5 dB
- Max Power 2 Watts (CW)
- Return Loss < -20 dB

**Applications**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

**Description**

Pasternack carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Pasternack carries one of the largest in-stock varieties and ships them same day. The 12 dB Fixed Attenuator PE70A1014 is rated to 2 Watts and operates from 0.009 to 6 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

**Electrical Specifications**

| Description          | Minimum | Typical | Maximum | Units |
|----------------------|---------|---------|---------|-------|
| Frequency Range      | 9KHz    |         | 6       | GHz   |
| Impedance            |         | 50      |         | Ohms  |
| Nominal Attenuation  |         | 12      |         | dB    |
| Attenuation Accuracy |         |         | ±0.5    | dB    |
| VSWR                 |         | 1.15:1  | 1.22:1  |       |
| Return Loss          |         | -23     | -20     | dB    |
| Input Power, CW      |         |         | 2       | Watts |

**Specifications by Frequency**

| Description               | F1        | F2     | F3 | F4 | F5 | Units |
|---------------------------|-----------|--------|----|----|----|-------|
| Frequency Range           | 9KHz to 3 | 3 to 6 |    |    |    | GHz   |
| Attenuation Accuracy, Typ | 0.15      | 0.25   |    |    |    | dB    |
| Attenuation Accuracy, Max | ±0.3      | ±0.5   |    |    |    | dB    |

**Mechanical Specifications**

**Size**

- Length 1.216 in [30.89 mm]
- Width/Diameter 0.366 in [9.3 mm]
- Height 0 in [0 mm]
- Weight 0.0261 lbs [11.84 g]
- Body Material and Plating Brass

12 dB Fixed Attenuator, SMA Male to SMA Female Brass  
Body Rated to 2 Watts From 0.009 MHz to 6 GHz



## PE70A1014

### Configuration

Design Fixed  
Package Style Connectorized Module

### Connectors

| Description | Connector 1 | Connector 2 |
|-------------|-------------|-------------|
| Type        | SMA Male    | SMA Female  |
| Hex Size    | 5/16 inch   |             |

### Environmental Specifications

Temperature

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

### Plotted and Other Data

Notes:  
Data measurements start from 9 kHz to 6 GHz

### Typical Performance Data



12 dB Fixed Attenuator, SMA Male to SMA Female Brass  
Body Rated to 2 Watts From 0.009 MHz to 6 GHz



## PE70A1014

12 dB Fixed Attenuator, SMA Male to SMA Female Brass Body Rated to 2 Watts From 0.009 MHz to 6 GHz 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.

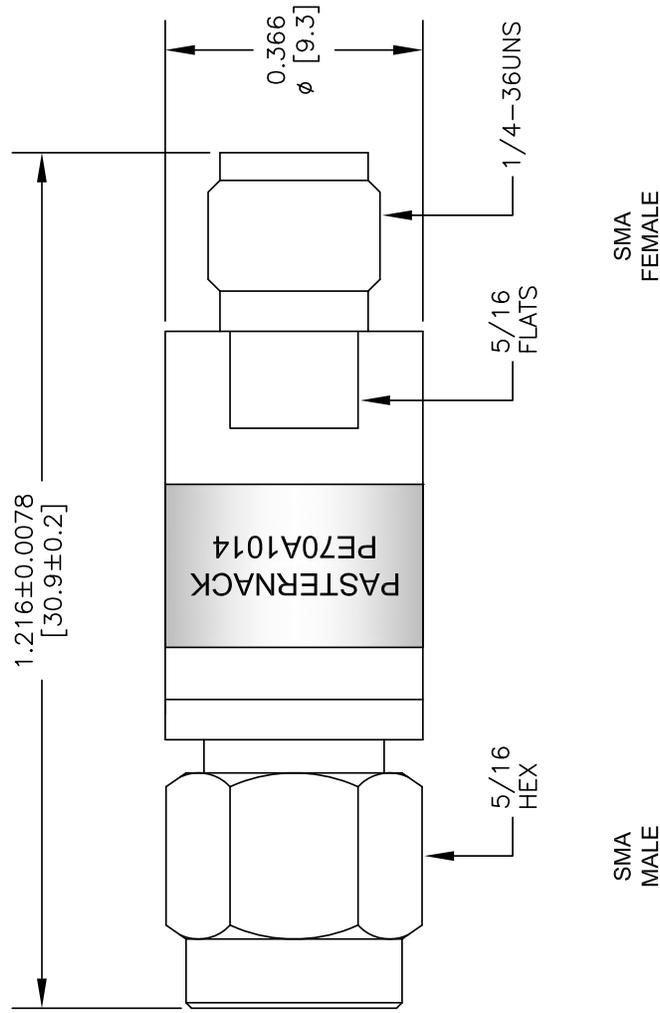
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [12 dB Fixed Attenuator, SMA Male to SMA Female Brass Body Rated to 2 Watts From 0.009 MHz to 6 GHz PE70A1014](https://www.pasternack.com/12db-fixed-sma-male-sma-female-2-watts-attenuator-pe70a1014-p.aspx)

URL: <https://www.pasternack.com/12db-fixed-sma-male-sma-female-2-watts-attenuator-pe70a1014-p.aspx>

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.

# PE70A1014 CAD Drawing

12 dB Fixed Attenuator, SMA Male to SMA Female Brass Body Rated to 2 Watts From 0.009 MHz to 6 GHz



| GENERAL TOLERANCES |         |
|--------------------|---------|
| 0.039-0.158        | ±0.0055 |
| 0.158-0.630        | ±0.0059 |
| 0.630-2.480        | ±0.0078 |
| >2.480             | ±0.0118 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

|   |  |   |  |
|---|--|---|--|
| <p>Pasternack Enterprises, Inc.<br/>P.O. Box 16759   Irvine   CA   92623<br/>Phone: (949) 261-1920   Fax: (949) 261-7451<br/>Website: www.pasternack.com   E-Mail: sales@pasternack.com</p> |  | <p>NOTES:<br/>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br/>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br/>3. DIMENSIONS ARE IN INCHES [mm].</p> |  |
| <p>DWG TITLE<br/><b>PE70A1014</b></p>   |  | <p>FSCM NO. 53919</p>   |  |
| <p>CAD FILE 030116</p>  |  | <p>SCALE N/A</p>  |  |
| <p>SIZE A</p>   |  | <p>3045</p>   |  |