



## Isolator With 17 dB Isolation From 18 GHz to 26.5 GHz, 1 Watt And SMA Female

### Isolators Technical Data Sheet

PE8306

#### Features

- 18 to 26.5 GHz Frequency Range
- Max Forward and Reverse Power 1 Watt CW
- Insertion Loss < 0.6 dB
- VSWR < 1.4:1
- Isolation > 17 dB
- SMA Female Connectors

#### Applications

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

#### Description

The PE8306 is a single junction isolator offering a forward and reverse power rating of 1 Watt CW over an operational frequency band of 18 to 26.5 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 17 dB isolation.

Pasternack offers a wide variety of isolators to fit your needs. These are two-port devices that transmit microwave or radio frequency power in one direction only and block the signal in the opposite direction. They can be thought of as a diode for RF energy. Isolators are used to isolate equipment from the effects of conditions outside of the equipment. For instance they are used to prevent a microwave source being detuned by a mismatched load. Pasternack's isolators feature excellent insertion loss, high isolation and reliability.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	17			dB
VSWR			1.4:1	
Forward Power, CW			1	Watts
Reverse Power, CW			1	Watts

Electrical Specification Notes:  
 Values at 25°C, sea level.

#### Mechanical Specifications

Size	
Length	0.5 in [12.7 mm]
Width	0.69 in [17.53 mm]
Height	0.5 in [12.7 mm]
Weight	0.048 lbs [21.77 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Isolator With 17 dB Isolation From 18 GHz to 26.5 GHz, 1 Watt And SMA Female PE8306](#)



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### Configuration

Design	Single Junction
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

### Environmental Specifications

#### Temperature

Operating Range	-54 to +85 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

Isolator With 17 dB Isolation From 18 GHz to 26.5 GHz, 1 Watt And SMA Female 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.

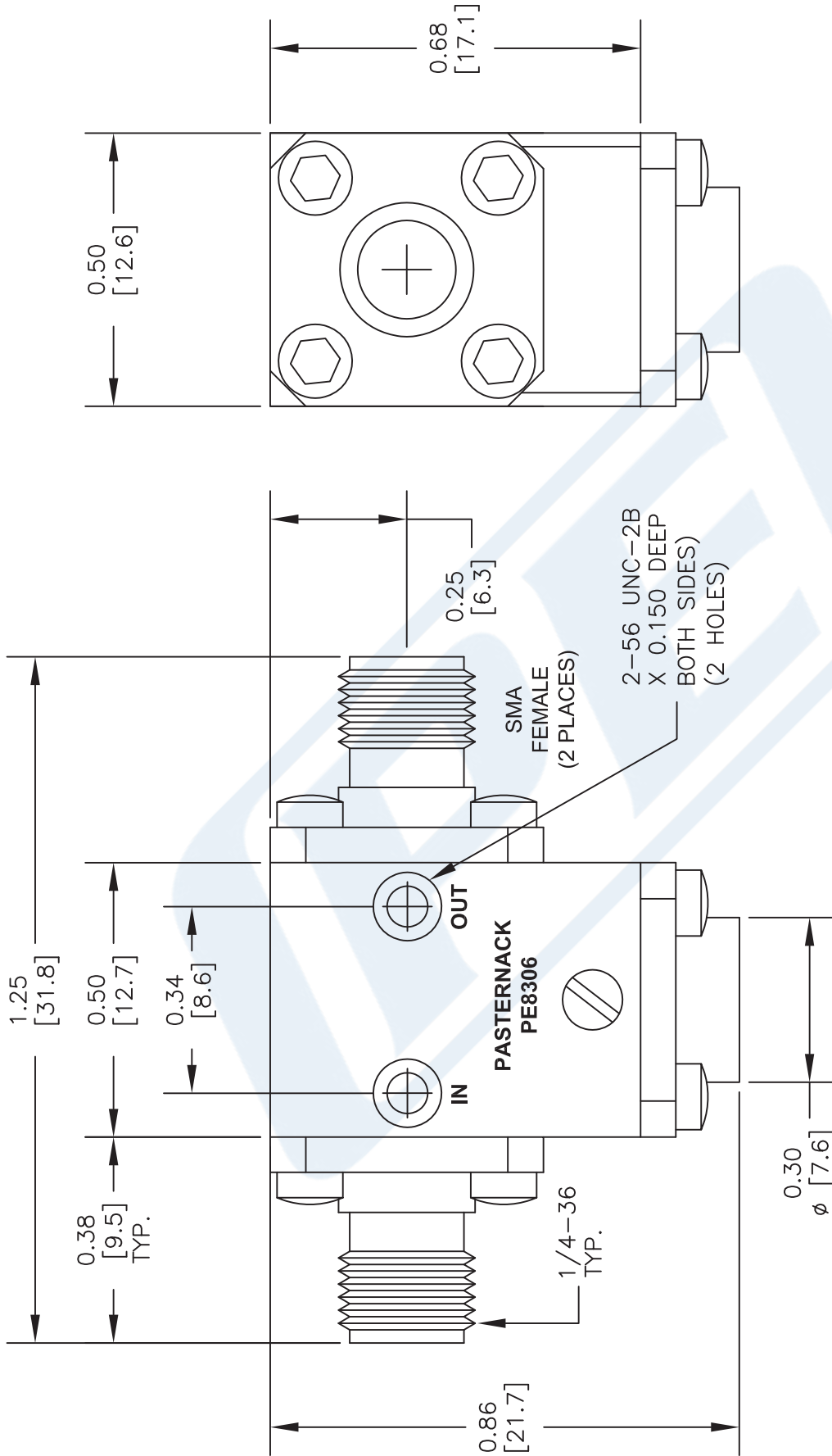
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URL: <https://www.pasternack.com/50-ohm-sma-isolator-18000-mhz-26500-mhz-20-watts-17-db-pe8306-p.aspx>

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.

# PE8306 CAD Drawing

Isolator With 17 dB Isolation From 18 GHz to 26.5 GHz, 1 Watt And SMA Female



### STANDARD TOLERANCES

.X  $\pm 0.2$   
 .XX  $\pm 0.1$   
 .XXX  $\pm 0.05$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE8306**

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].

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SCALE N/A

SIZE A

2233