



## Directional 30 dB N Coupler From 4 GHz to 12 GHz Rated to 600 Watts

### Couplers Technical Data Sheet

PE2235-30

#### Features

- High Power Directional Coupler
- 4 to 12 GHz Frequency Range
- Coupling 30±1 dB
- Directivity > 15 dB
- VSWR < 1.3:1
- Max Power 600 Watts (CW)

#### Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

#### Description

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The PE2235-30 is a 30 dB high power directional coupler that operates from 4 to 12 GHz and can handle up to 600 Watts (CW) with 15 dB directivity minimum and 1.3:1 VSWR maximum. The package is REACH/RoHS compliant and uses N female and SMA female connectors.

The PE2235-30 is part of Pasternack's family of directional/dual-directional couplers that offer coupling ratios up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4		12	GHz
Impedance		50		Ohms
Coupling		30 ±1		dB
Frequency Sensitivity		±0.6		dB
Insertion Loss		0.2		dB
Directivity	15			dB
Main Line VSWR			1.3:1	
Input Power (CW)			600	Watts
Input Power (Peak)			10	KWatts

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Directional 30 dB N Coupler From 4 GHz to 12 GHz Rated to 600 Watts PE2235-30](#)



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### Mechanical Specifications

#### Size

Length	2.5 in [63.5 mm]
Width/Dia.	0.8 in [20.32 mm]
Height	1.1 in [27.94 mm]
Weight	0.31 lbs [140.61 g]

#### Configuration

Package Type	Connectorized
Input Connector	N Female
Output Connector	N Female
Coupled Connectors	SMA Female

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

### Plotted and Other Data

Notes:

Directional 30 dB N Coupler From 4 GHz to 12 GHz Rated to 600 Watts 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.

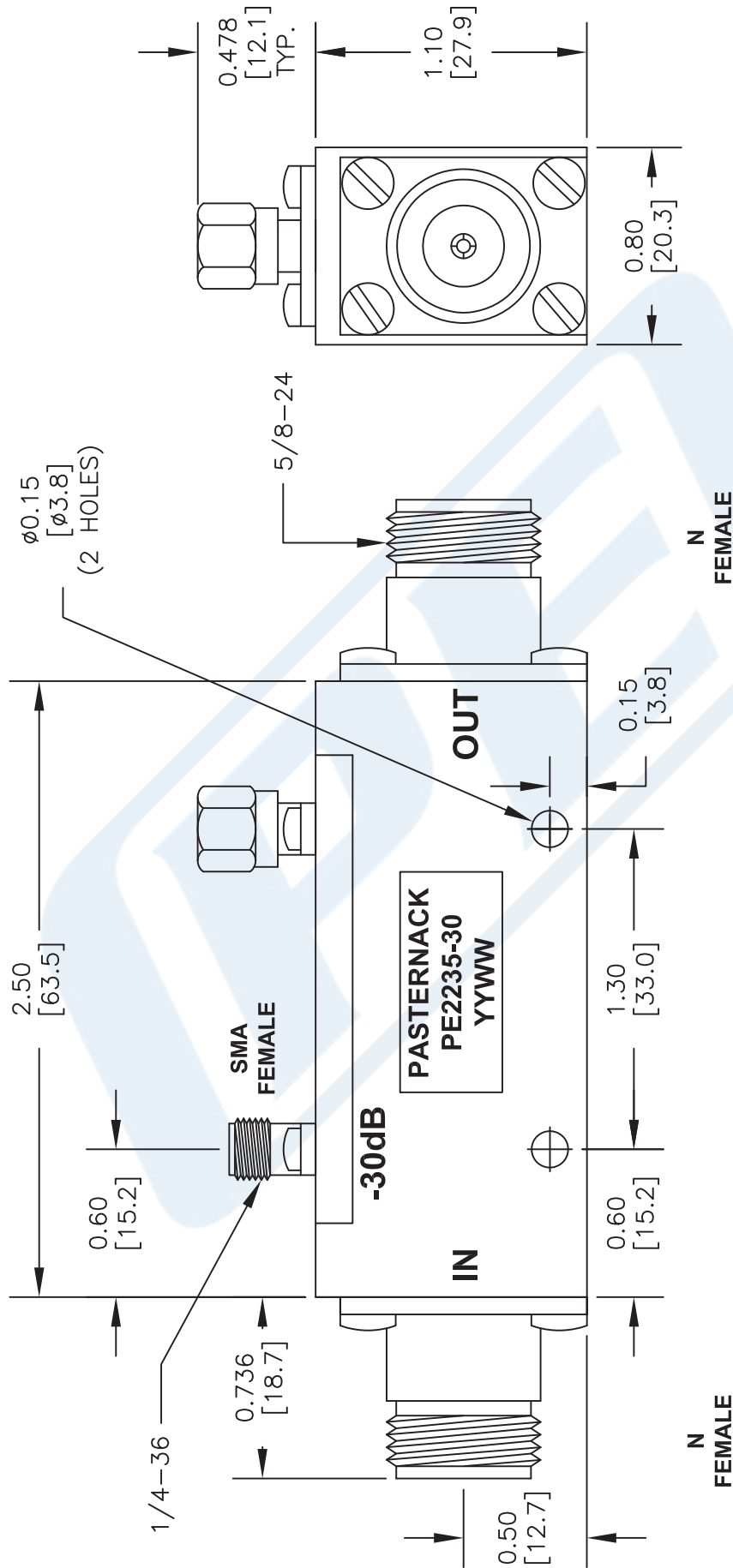
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Directional 30 dB N Coupler From 4 GHz to 12 GHz Rated to 600 Watts PE2235-30](#)

URL: <https://www.pasternack.com/directional-30-db-n-coupler-4-12-ghz-600-watts-pe2235-30-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.

# PE2235-30 CAD Drawing

Directional 30 dB N Coupler From 4 GHz to 12 GHz Rated to 600 Watts



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  
**PE2235-30**

**PE PASTERNAK**  
 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

CAD FILE	040116	SCALE	N/A	SIZE	A	3045
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FSCM NO. 53919