



Directional 30 dB N Coupler From 1 GHz to 8 GHz Rated to 600 Watts

Couplers Technical Data Sheet

PE2239-30

Features

- High Power Directional Coupler
- 1 to 8 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 PE2239-30 is a 30 dB high power directional coupler that operates from 1 to 8 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 PE2239-30 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	1		8	GHz
Impedance		50		Ohms
Coupling		30 ±1		dB
Frequency Sensitivity		±0.75		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.

Coupling tolerance includes frequency sensitivity.

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 1 GHz to 8 GHz Rated to 600 Watts PE2239-30](#)



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Mechanical Specifications

Size

Length	3.85 in [97.79 mm]
Width/Dia.	0.8 in [20.32 mm]
Height	1.58 in [40.13 mm]
Weight	0.41 lbs [185.97 g]

Configuration

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

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	
REACH Compliant	12/17/2015

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: [Directional 30 dB N Coupler From 1 GHz to 8 GHz Rated to 600 Watts PE2239-30](#)

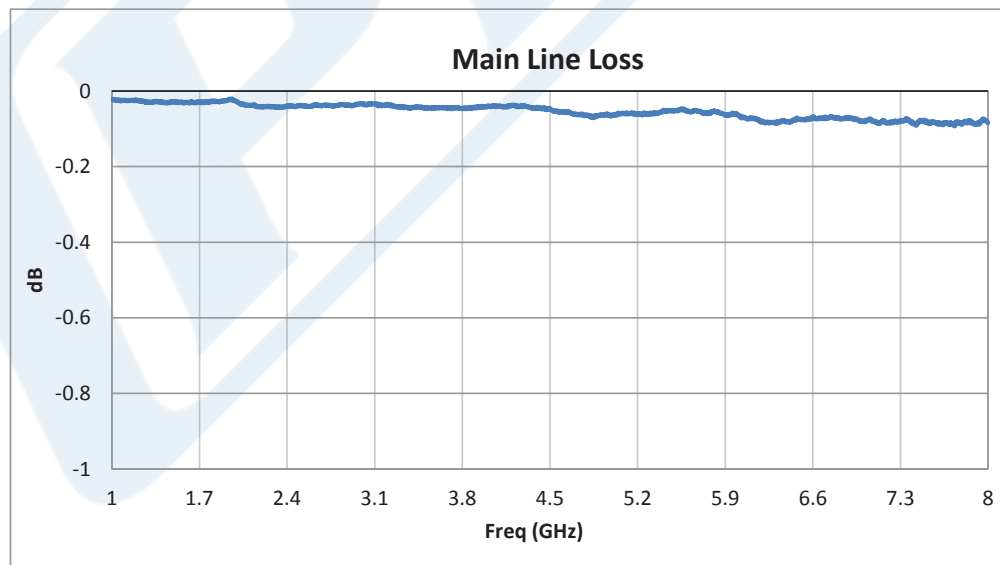
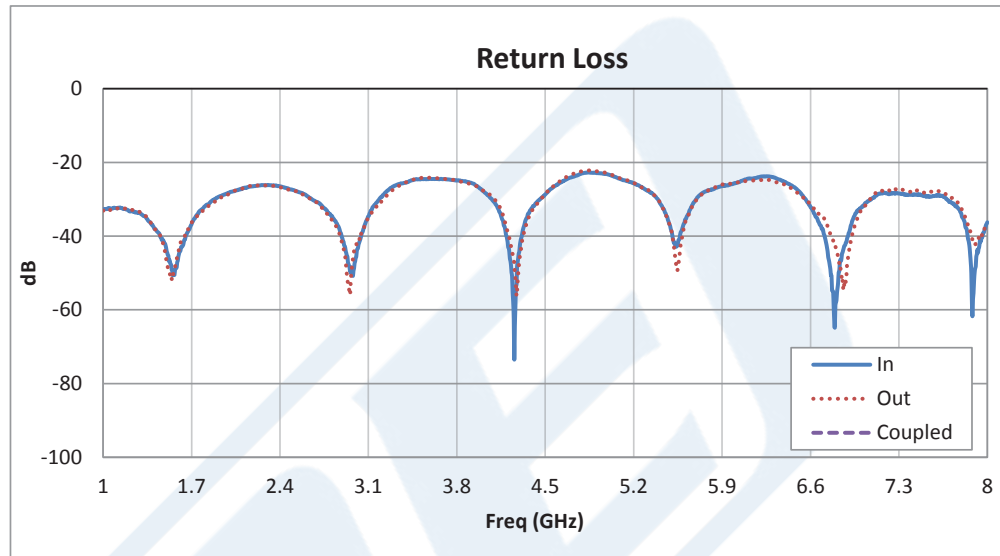


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Typical Performance Data



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Directional 30 dB N Coupler From 1 GHz to 8 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% availability and are part of the broadest selection in the industry.

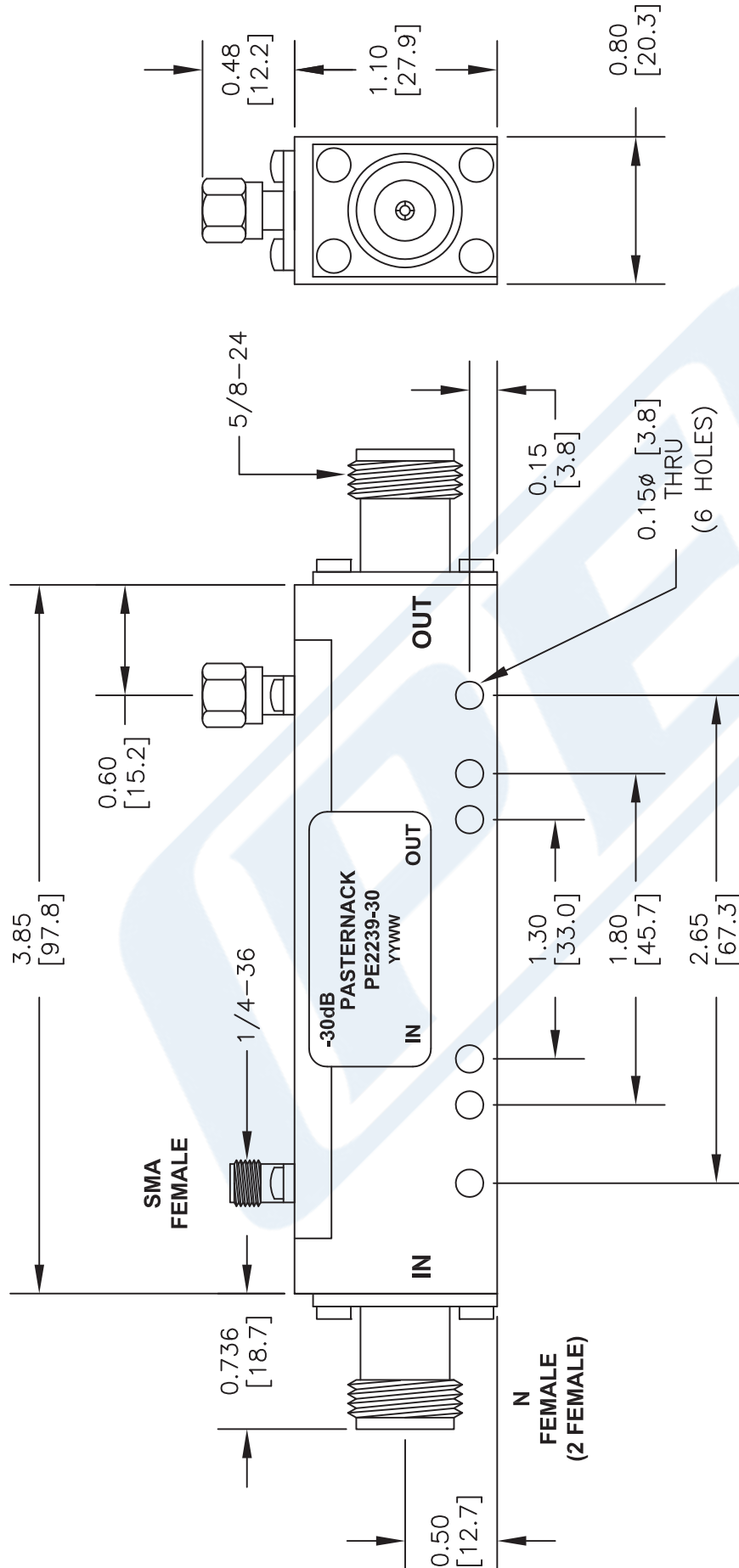
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URL: <http://www.pasternack.com/directional-30-db-n-coupler-1-8-ghz-50-watts-pe2239-30-p.aspx>

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.

PE2239-30 CAD Drawing

Directional 30 dB N Coupler From 1 GHz to 8 GHz Rated to 600 Watts



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

(PE) PASTERNAK®
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE2239-30

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].

FSCM NO. 53919

CAD FILE 040116

SCALE N/A

SIZE A

3045