

Directional 30 dB SMA Coupler From 2 GHz to 4 GHz Rated to 50 Watts



Couplers Technical Data Sheet PE2202-30 Features

- Directional Coupler
- 2 to 4 GHz Frequency Range
- Coupling 30±1.25 dB

Applications

- Test and Measurement
- Military Communications

- Directivity > 22 dB
- Low VSWR < 1.15:1
- Max Power 50 Watts (CW)

SATCOM

- Commercial Communications
- Wireless Communications

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 PE2202-30 is a 30 dB directional coupler that operates from 2 to 4 GHz and can handle up to 50 Watts (CW) with 22 dB directivity minimum and 1.15:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The PE2202-30 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

Minimum	Typical	Maximum	Units
2		4	GHz
	50		Ohms
	30 ±1.25		dB
	±0.7		dB
	0.2		dB
	0.15		dB
22			dB
		1.15:1	
		1.15:1	
		50	Watts
		50	Watts
		3	kWatts
	2	2 50 30 ±1.25 ±0.7 0.2 0.15	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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 SMA Coupler From 2 GHz to 4 GHz Rated to 50 Watts PE2202-30

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



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Electrical Specification Notes: Values at 25°C, sea level. Coupling tolerance includes frequency sensitivity. Main line loss is the difference in power level between input and output. Insertion loss excludes coupled power from main line loss.

Mechanical Specifications

Size Length Width/Dia. Height Weight

Configuration

Package Type Input Connector Output Connector Coupled Connectors

Environmental Specifications

Temperature Operating Range Humidity

Shock Vibration

Altitude Thermal Shock 1.16 in [29.46 mm] 0.38 in [9.65 mm] 1.06 in [26.92 mm]

0.064 lbs [29.03 g]

Connectorized SMA Female SMA Female SMA Female

-55 to +85 deg C MIL-STD-202, Method 106 (90% relative humidity, +65°C) MIL-STD-202, Method 213/I (100 G's, 6 ms) MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's, 12 hours) MIL-STD-202, Method 105/E (150,000 feet) MIL-STD-202, Method 107/B (-55°C to +85°C)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/directional-30-db-sma-coupler-2-4-ghz-50-watts-pe2202-30-p.aspx

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PE2202-30 CAD Drawing

Directional 30 dB SMA Coupler From 2 GHz to 4 GHz Rated to 50 Watts

