

Directional 30 dB SMA Coupler From 7 GHz to 16 GHz Rated to 50 Watts



Couplers Technical Data Sheet

PE2CP1112

Features

- 7 to 16 GHz
- · 50 Watts CW Max Power
- · 30 dB Coupling Value

- Directional SMA Coupler
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications

- · Communications Systems
- · CDMA, GSM, LTE
- · Amplifier Systems

- · Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications

Wireless Telecommunications

Description

The PE2CP1112 is a 30 dB RF coupler with 50 ohm SMA connectors operating from 7 to 16 GHz with a maximum input power of 50 Watts CW, and peak power handling of 3 kilowatt. The PE2CP1112 has a coupling factor of 30 dB, insertion loss of 0.4 dB (excluding coupled power) and a maximum VSWR of 1.4:1. The coupler operates over a temperature range of -55° to 105° C and meets environmental standard for humidity, shock, vibration, and altitude. Couplers have many Applications and perform several functions within the RF/Microwave industry such as circuit feedback and signal sampling for measurement or monitoring.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7		16	GHz
Impedance		50		Ohms
Coupling	29	30	31	dB
Frequency Sensitivity		±0.3	±0.5	dB
Insertion Loss			0.4	dB
Directivity	12	15		dB
Main Line VSWR		1.3:1	1.4:1	
Input Power (CW)			50	Watts
Input Power (Peak)			3	kWatts

Mechanical Specifications

Size

 Length
 1 in [25.4 mm]

 Width/Dia.
 0.38 in [9.65 mm]

 Height
 0.5 in [12.7 mm]

Finish Gray
Housing Material and Plating Aluminum

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 7 GHz to 16 GHz Rated to 50 Watts PE2CP1112

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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Configuration

Input Connector SMA Female
Output Connector SMA Female
Coupled Connectors SMA Female

Environmental Specifications

Temperature

Operating Range -55 to +105 deg C Storage Range -55 to +125 deg C

Humidity 100% RH at 35°C, 95% RH at 40°C
Shock 20G for 11msec half sine wave, 3 axis both directions
Vibration 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Directional 30 dB SMA Coupler From 7 GHz to 16 GHz Rated to 50 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.

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URL: https://www.pasternack.com/directional-30-db-sma-coupler-16-ghz-pe2cp1112-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.

PE2CP1112 CAD Drawing
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