



Directional 30 dB SMA Coupler From 6 GHz to 26.5 GHz Rated to 30 Watts

Couplers Technical Data Sheet

PE2CP1120-30

Features

- 6 GHz to 26.5 GHz
- 30 Watts CW Max Power
- 30 dB Coupling Value
- Directional SMA Coupler
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications

- Communications Systems
- GSM, LTE, 5G
- Amplifier Systems
- Point-to-Point Radio
- Automotive Radar
- Defense Applications
- Wireless Telecommunications

Description

The PE2CP1120-30 is an 30 dB RF coupler with 50 ohm SMA connectors operating from 6 GHz to 26.5 GHz with a maximum input power of 30 Watts CW, and peak power handling of 300 watt. The PE2CP1120-30 has a coupling factor of 30 dB, insertion loss of 1 dB maximum and a maximum VSWR of 1.5:1. The coupler operates over a temperature range of -45 to 85° 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	6		26.5	GHz
Impedance		50		Ohms
Coupling		30		dB
Frequency Sensitivity			±1	dB
Insertion Loss			1	dB
Directivity	13			dB
Main Line VSWR			1.5:1	
Secondary Line VSWR			1.5:1	
Input Power (CW)			30	Watts
Input Power (Peak)			300	Watts

Mechanical Specifications

Weight	0.0575 lbs [26.08 g]
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 6 GHz to 26.5 GHz Rated to 30 Watts PE2CP1120-30](#)

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Configuration

Package Type
Input Connector
Output Connector
Coupled Connectors

Connectorized
SMA Female
SMA Female
SMA Female

Environmental Specifications

Temperature

Operating Range
Storage Range

-45 to +85 deg C
-55 to +125 deg C

Humidity
Shock
Vibration
Altitude

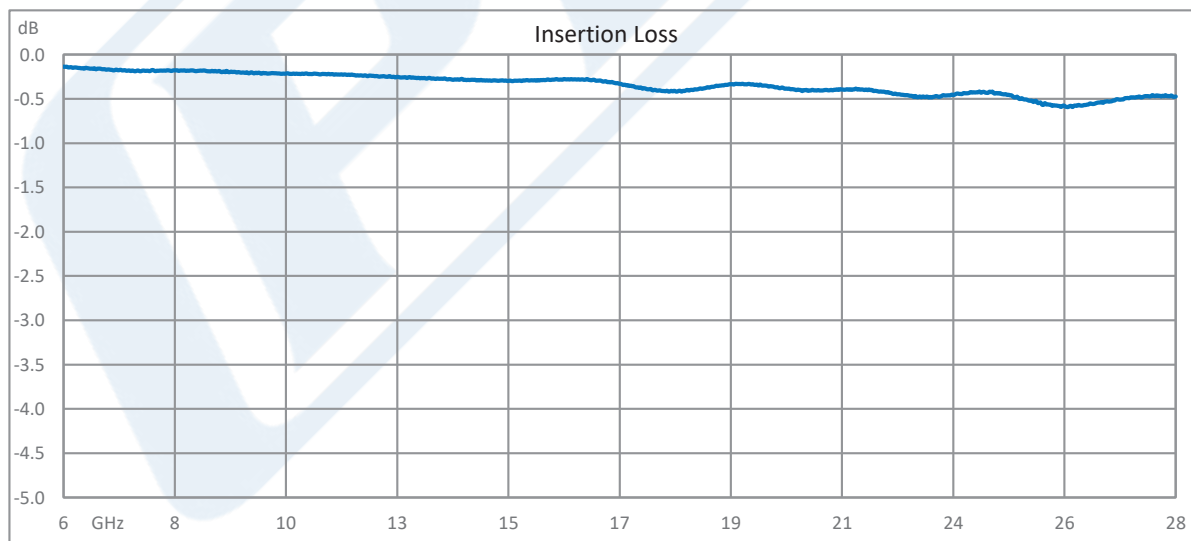
100% RH at 35°C, 95% RH at 40°C
20G for 11msec half sine wave, 3 axis both directions
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
30,000 ft. (Epoxy Sealed Controlled environment)

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

Plotted and Other Data

Notes:

Typical Performance Data



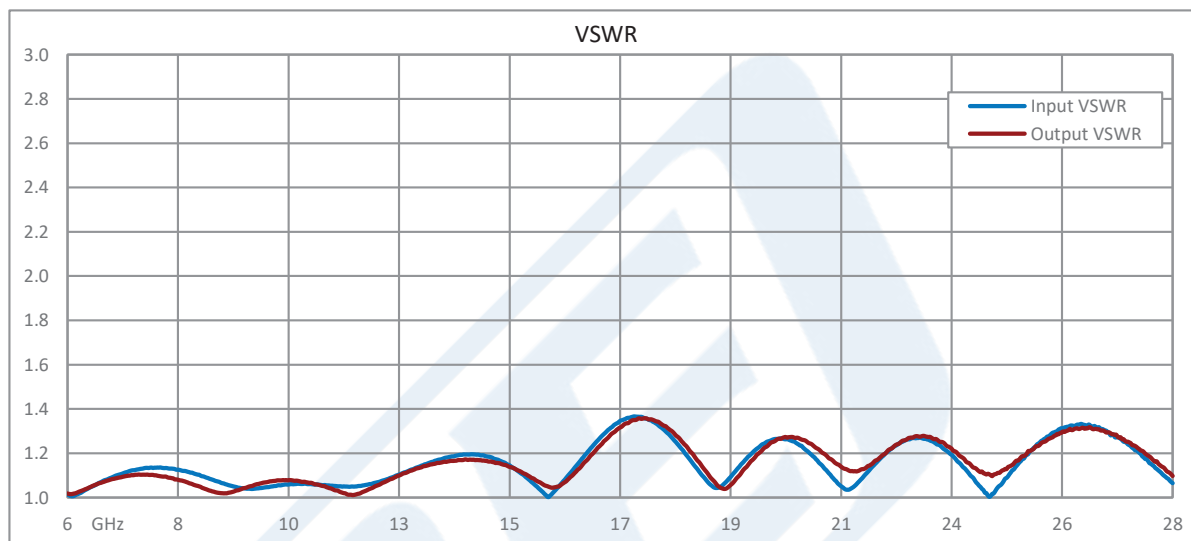
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Directional 30 dB SMA Coupler From 6 GHz to 26.5 GHz Rated to 30 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part 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 SMA Coupler From 6 GHz to 26.5 GHz Rated to 30 Watts PE2CP1120-30](https://www.pasternack.com/directional-30-db-sma-coupler-26.5-ghz-pe2cp1120-30-p.aspx)

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