

90 Degree SMA Hybrid Coupler From 7.5 GHz to 16 GHz Rated to 100 Watts



Hybrids Technical Data Sheet

PE2056A

Features

- High Power 90° Hybrid Coupler
- 7.5 to 16 GHz Frequency Range

Applications

- Test and Measurement
- Military Communications

- Isolation 15 dB
- Max Power 100 Watts (CW)
- Commercial CommunicationsWireless Communications
- SATCOM

Description

The PE2056A is a high power 90 degree hybrid coupler that operates from 7.5 to 16 GHz and can handle up to 100 Watts (CW) with 15 dB isolation and 1.4:1 VSWR maximum. The package interface uses SMA female connectors, and is REACH and RoHS compliant.

The PE2056A is part of Pasternack's family of 90 degree hybrid couplers in connectorized packages. These quadrature hybrids are excellent for any situation to either equally split an input signal into two paths with a 90 degree phase shift between them or to combine signals while maintaining high isolation between them.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.5		16	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Coupling		3.6 ±0.8		dB
Isolation		15		dB
VSWR			1.4:1	
Amplitude Balance			±1.4	dB
Phase Balance			±8	Degrees
Input Power (CW)			100	Watts
Input Power (Peak)			2	KWatts

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	1.33 in [33.78 mm]
Height	0.38 in [9.65 mm]
Weight	0.047 lbs [21.32 g]

Configuration

RF Connector Type

SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 90 Degree SMA Hybrid Coupler From 7.5 GHz to 16 GHz Rated to 100 Watts PE2056A

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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Environmental Specifications

Temperature Operating Range Storage Range

Humidity

Shock Vibration -25 to +80 deg C -55 to +150 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)

Altitude

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

90 Degree SMA Hybrid Coupler From 7.5 GHz to 16 GHz Rated to 100 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/sma-coupler-16-ghz-pe2056a-p.aspx

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PE2056A CAD Drawing 90 Degree SMA Hybrid Coupler From 7.5 GHz to 16 GHz Rated to 100 Watts

