



2 Way 2.4mm Power Divider from DC to 50 GHz Rated at 0.5 Watts

Power Dividers Technical Data Sheet

PE20DV1056

Features

- 2-Way Power Divider
- Resistive Design
- 0 to 50 GHz Frequency Range
- Max Power 0.5 Watts (CW)
- Insertion Loss < 7.8 dB

Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Description

Pasternack carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Pasternack's resistive and Wilkinson power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types such as 2.92mm, BNC, N and SMA.

The PE20DV1056 is a 2-way resistive power divider that operates from 0 to 50 GHz and can handle up to 0.5 Watts (CW) with 7.8 dB max insertion loss. The package interface uses 2.4mm female connectors and is REACH and RoHS compliant.

Electrical Specifications

Design	Resistive
Number of Output Ports	2

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Isolation		14		dB
Amplitude Balance		±0.2	±0.6	dB
Phase Balance		±3	±6	Degrees
Input Power (CW)			0.5	Watts
Input Power (Peak)			5	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Way 2.4mm Power Divider from DC to 50 GHz Rated at 0.5 Watts PE20DV1056](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 50				GHz
Input VSWR, Max	1.8:1	1.8:1				
Output VSWR, Max	2.2:1	3:1				
Insertion Loss, Max	7	7.8				dB

Mechanical Specifications

Size

Length	0.62 in [15.75 mm]
Width	0.69 in [17.53 mm]
Height	0.39 in [9.91 mm]
Weight	0.048 lbs [21.77 g]

Housing Material and Plating

Aluminum, Gold

Configuration

Package Type	Connectorized
Input Connector	2.4mm Female
Output Connectors	2.4mm Female

Environmental Specifications

Temperature

Operating Range	-45 to +85 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:

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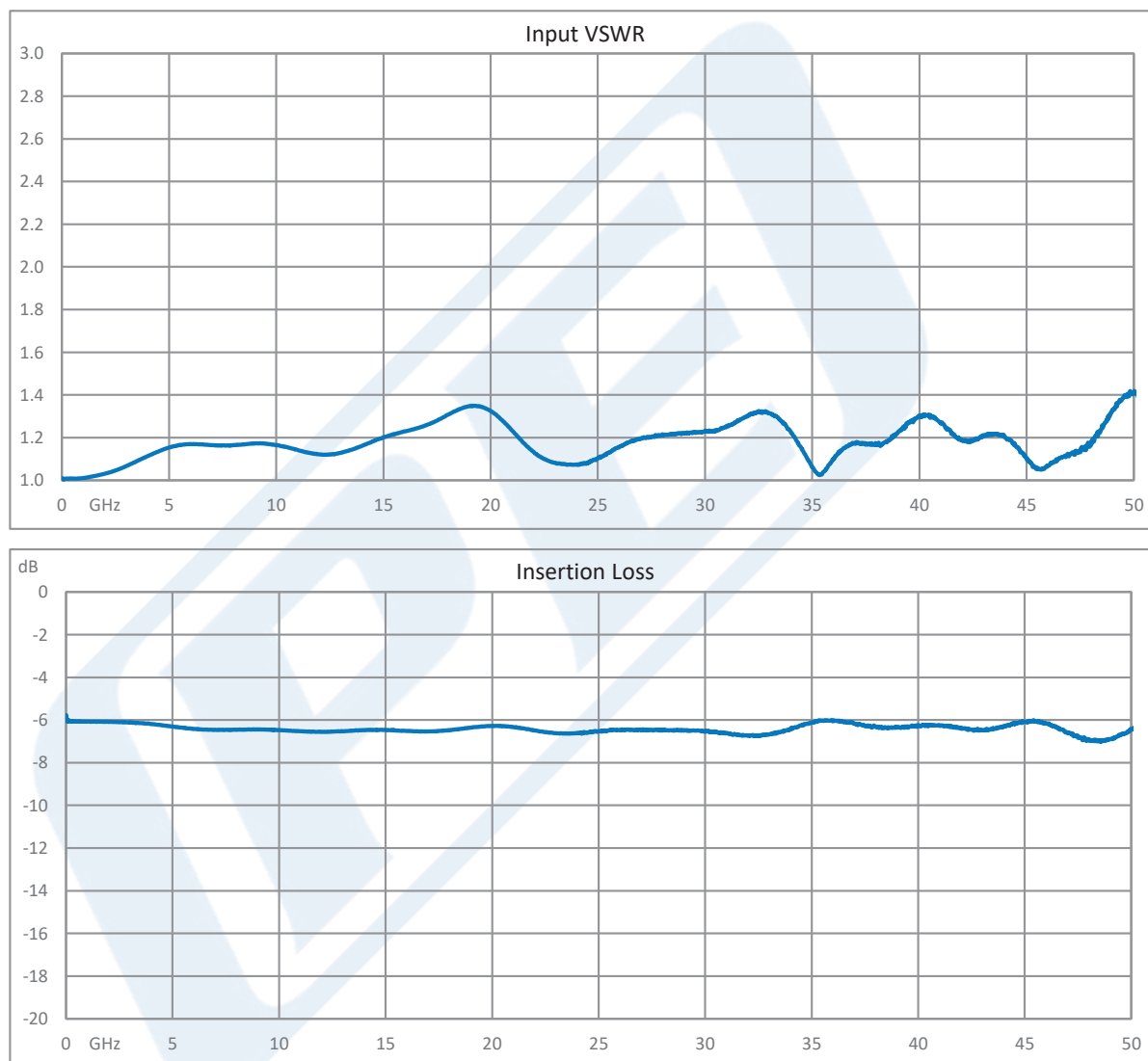


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Typical Performance Data



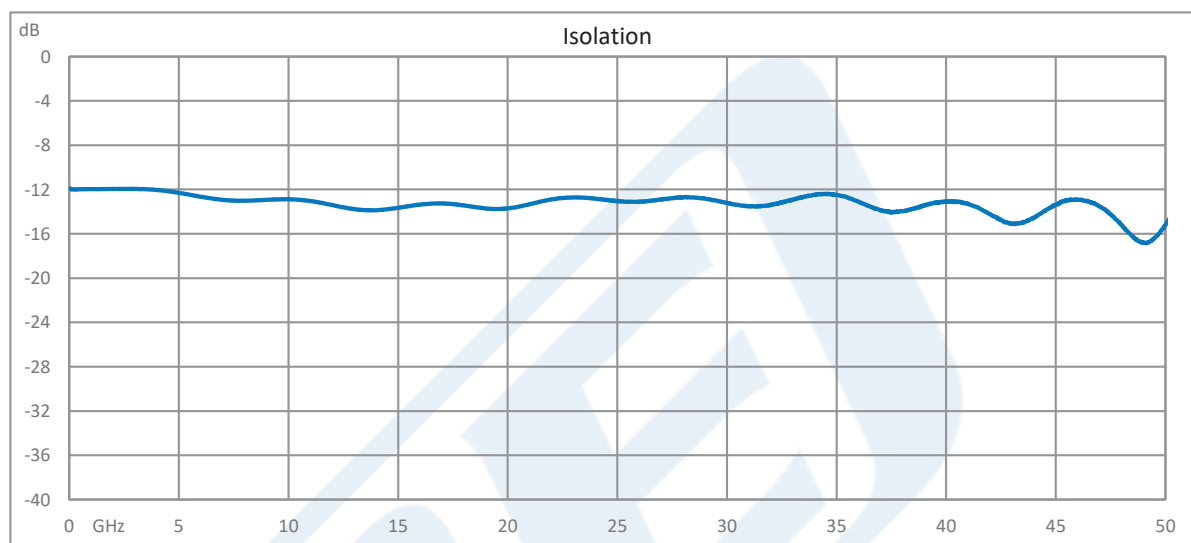
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2 Way 2.4mm Power Divider from DC to 50 GHz Rated at 0.5 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the 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: [2 Way 2.4mm Power Divider from DC to 50 GHz Rated at 0.5 Watts PE20DV1056](#)

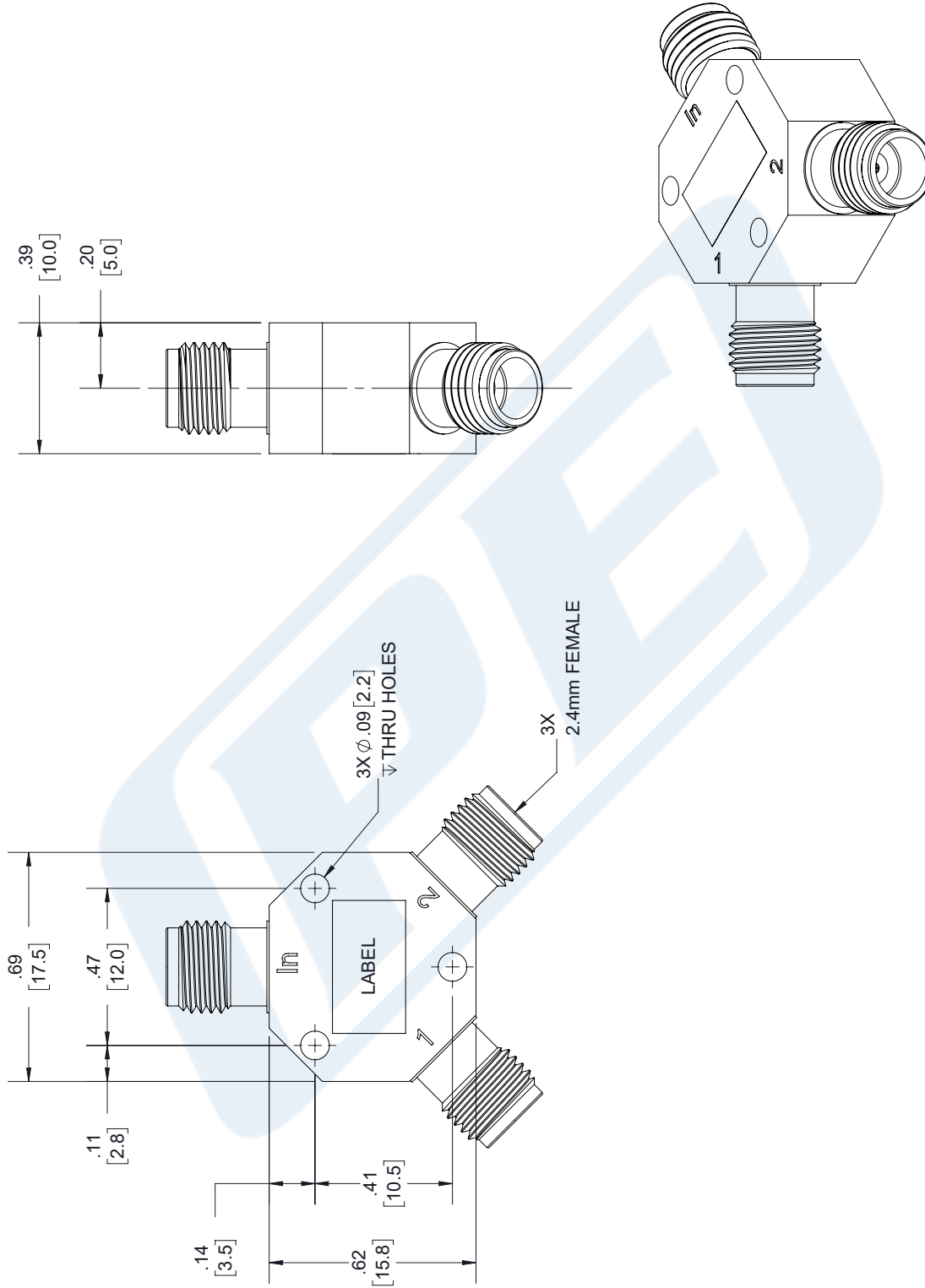
URL: <https://www.pasternack.com/2-way-2.4mm-power-divider-50-ghz-pe20dv1056-p.aspx>

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PE20DV1056 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/29/19	S. PONG



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.005
XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SCALE N/A	REV A
SIZE A	DRAWN BY KDANG
CAGE 53919	PART NUMBER PE20DV1056

LABEL:

PASTERNAK
PE20DV1056
D/C: XXXX

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