Dual Directional 20 dB SMA Coupler From 1 GHz to 2 GHz Rated to 50 Watts

PE2218-20

Features

- Dual Directional Coupler
- 1 to 2 GHz Frequency Range
- Coupling 20±1.25 dB
- Directivity > 22 dB
- Low VSWR < 1.15:1
- Max Power 50 Watts (CW)

Applications

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

Description

Dual directional couplers are indispensable components for building a reflectometer as they can provide power measurements in both forward and reverse direction simultaneously. The PE2218-20 is a 20 dB dual directional coupler that operates from 1 to 2 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 PE2218-20 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

Description	Min	Typ	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Coupling		20 ±1.25		
Freq. Sensitivity		±0.8		dB
Main Line Loss			0.5	dB
Directivity	22			dB
Main Line VSWR			1.15:1	
Sec. Line VSWR			1.1:1	
Input Power (CW)			50	Watts
Input Power (Peak)			3	kWatts

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.

Mechanical Specifications

Size

Length	3.68 in [93.47 mm]
Width/Dia.	0.38 in [9.65 mm]
Height	1 in [25.4 mm]
Weight	0.0119 lbs [5.4 g]

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Configuration	
Package Type	Connectorized
Input Connector	SMA Female
Output Connector	SMA Female
Coupled Connectors	SMA Female

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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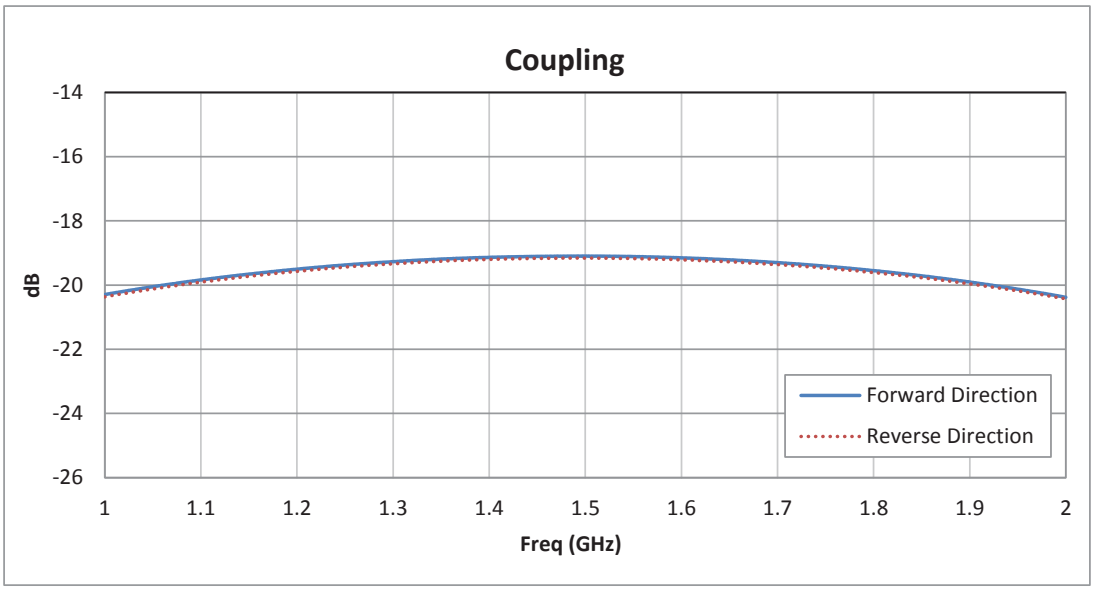
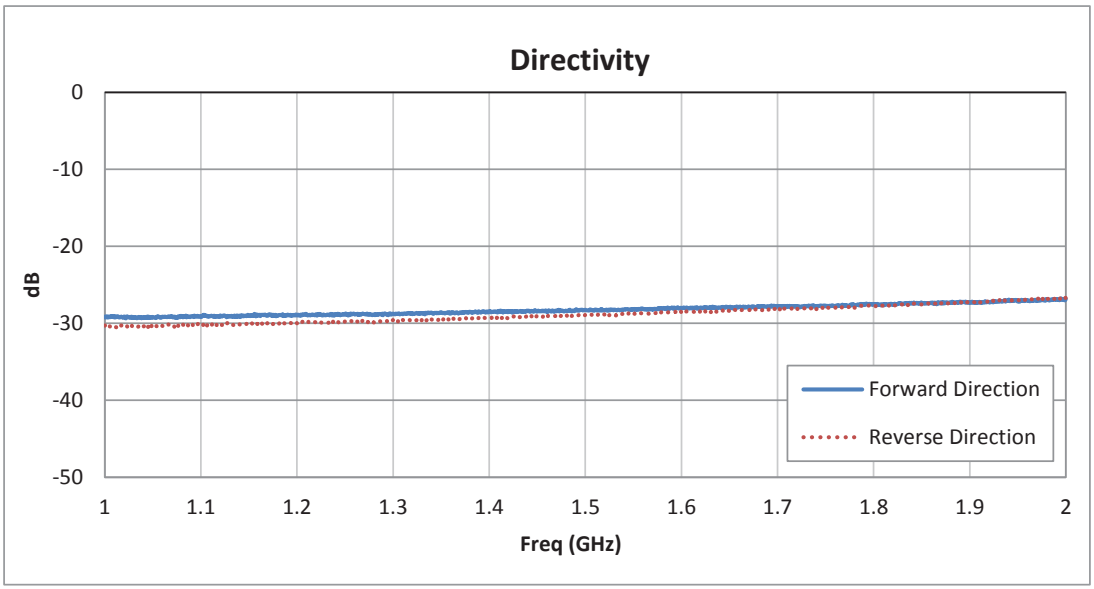
Typical Performance Data





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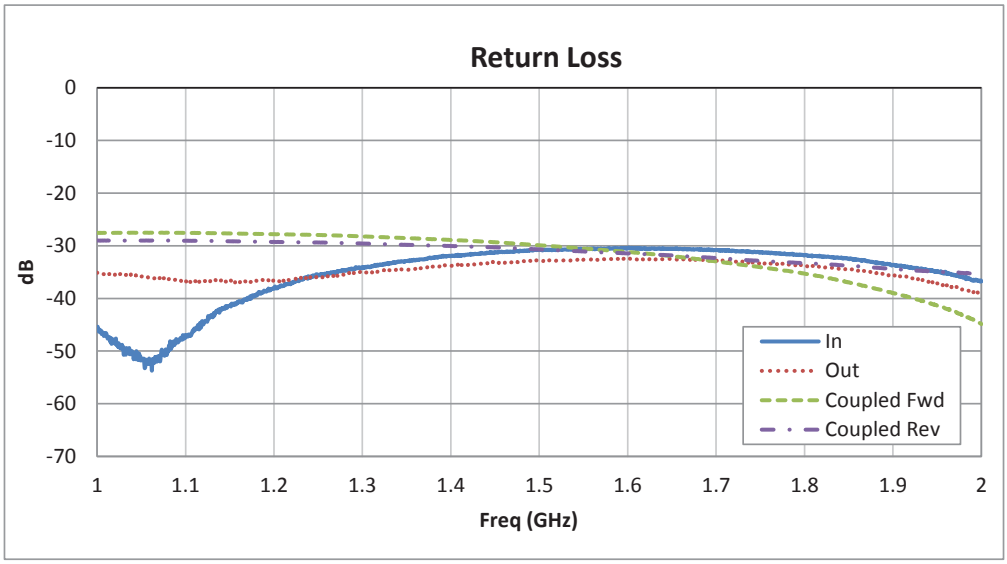

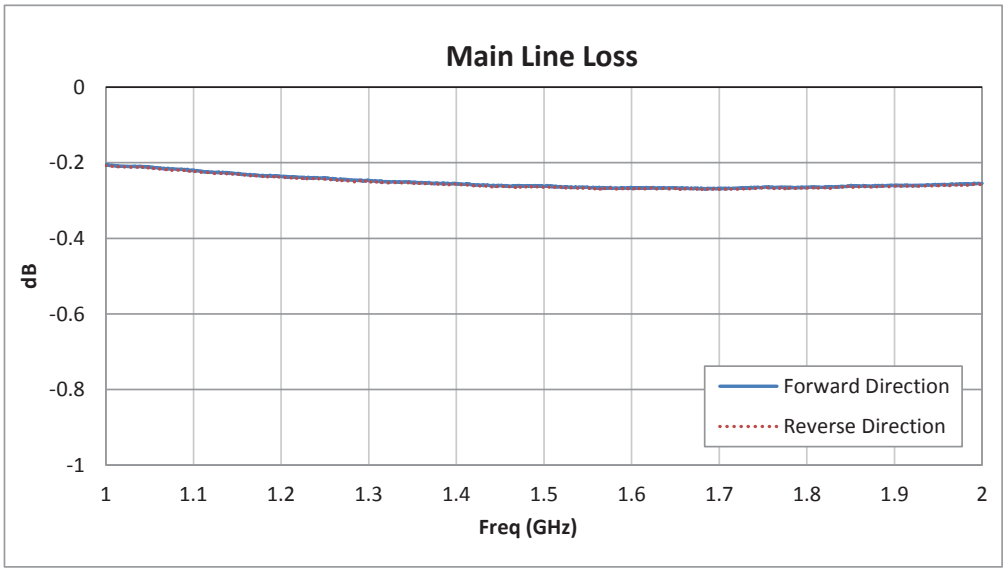

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Dual Directional 20 dB SMA Coupler From 1 GHz to 2 GHz Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Dual Directional 20 dB SMA Coupler From 1 GHz to 2 GHz Rated to 50 Watts PE2218-20

URL: https://www.pasternack.com/dual-directional-20-db-sma-coupler-1-2-ghz-10-watts-pe2218-20-p.aspx

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PE2218-20 CAD Drawing

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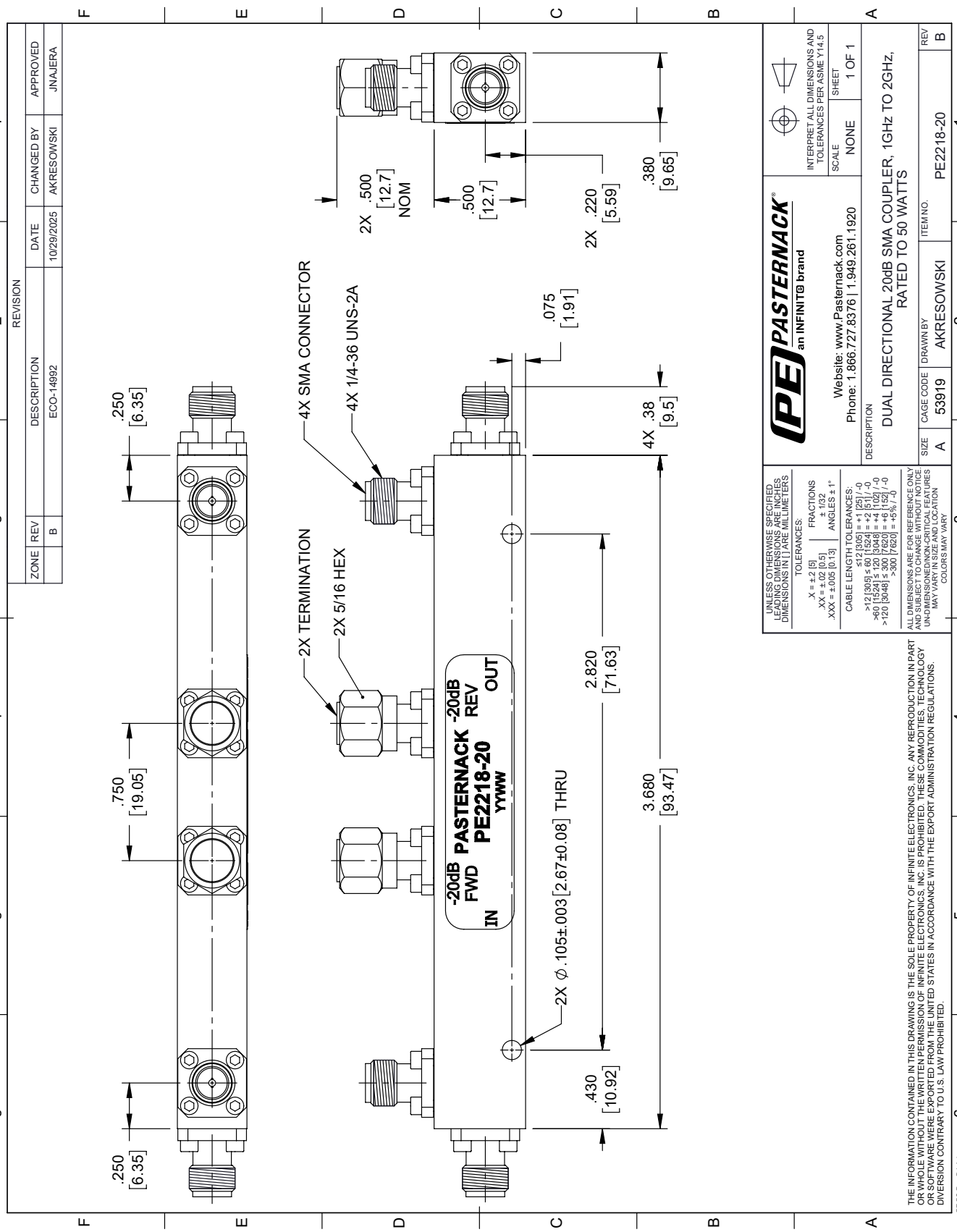

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