

## PASTERN AGE ERTURANTISES PEZZZ S-10

## Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts

### Couplers Technical Data Sheet

PE2218-10

#### **Features**

- · Dual Directional Coupler
- 1 to 2 GHz Frequency Range
- Coupling 10±1.25 dB

- Directivity > 22 dB
- Low VSWR < 1.15:1</li>
- Max Power 10 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 PE2218-10 is a 10 dB dual directional coupler that operates from 1 to 2 GHz and can handle up to 10 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 PE2218-10 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	Minimum	Typical	Maximum	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Coupling		10 ±1.25		dB
Frequency Sensitivity			±0.8	dB
Insertion Loss			0.5	dB
Directivity	22			dB
Main Line VSWR			1.15:1	
Secondary Line VSWR			1.15:1	
Input Power (CW)			10	Watts

**Electrical Specification Notes:** 

Values at 25°C, sea level.

Insertion loss does not include coupled power.

Max input power rated for load VSWR better than 1.20:1.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts PE2218-10

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



## PASTERNACE ENTERVEISES C

### Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts

### Couplers Technical Data Sheet

PE2218-10

### **Mechanical Specifications**

Size

 Length
 3.68 in [93.47 mm]

 Width/Dia.
 0.38 in [9.65 mm]

 Height
 1.2 in [30.48 mm]

 Weight
 0.123 lbs [55.79 g]

Configuration

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

**Environmental Specifications** 

**Temperature** 

Operating Range -25 to +80 deg C Storage Range -55 to +150 deg C

Humidity MIL-STD-202, Method 106 (90% relative humidity,

+65°C)

Shock MIL-STD-202, Method 213/I (100 G's, 6 ms)

Vibration MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's,

12 hours)

Altitude MIL-STD-202, Method 105/E (150,000 feet)
Thermal Shock MIL-STD-202, Method 107/B (-55°C to +85°C)

Compliance Certifications (visit www.Pasternack.com for current document)

**RoHS Compliant** 

REACH Compliant 12/17/2015

#### **Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts PE2218-10

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



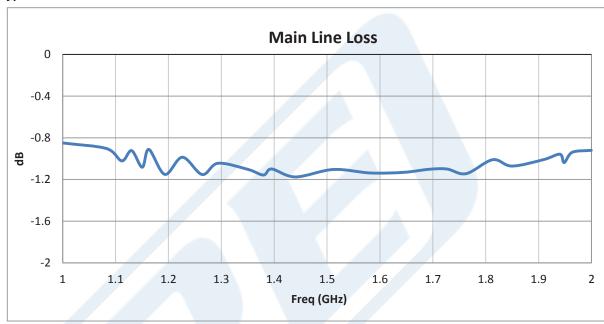
# PASTE IN AGR. ENTINGENESS PEZZ \$ 10

## Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts

### Couplers Technical Data Sheet

PE2218-10





Main line loss is the difference in power level between input and output.

Dual Directional 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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 10 dB SMA Coupler From 1 GHz to 2 GHz Rated to 10 Watts PE2218-10

URL: http://www.pasternack.com/dual-directional-10-db-sma-coupler-1-2-ghz-10-watts-pe2218-10-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.

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

### PE2218-10 CAD Drawing

