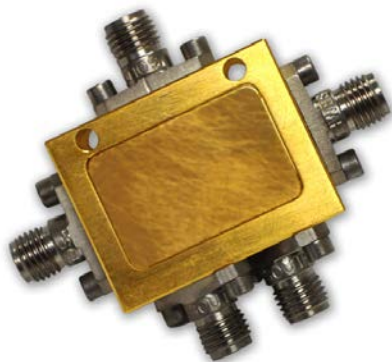


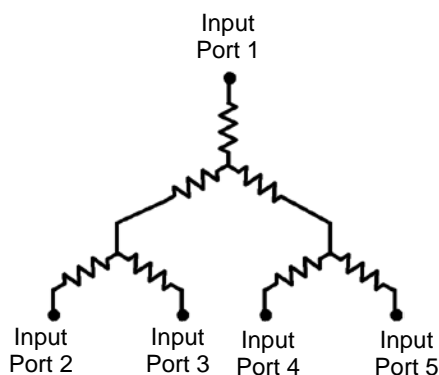
# 1:4 Resistive Divider

## PSPL5334 Datasheet



The PSPL5333 Power Divider is an ultra-broadband resistive coupler, which provides even division of an input signal at the output ports. The device exhibits excellent through-line insertion loss stability for frequencies from DC to >25 GHz. The 5333 features good impedance match across a wide range of frequencies, with return loss typically >15 dB from 0-25 GHz. Resistors are accurate within  $\pm 2\%$ , providing excellent input matching.

- DC to >25 GHz
- Excellent Return Loss
- Superb Insertion Loss Stability
- Accurate Amplitude and Phase Tracking



### Specifications

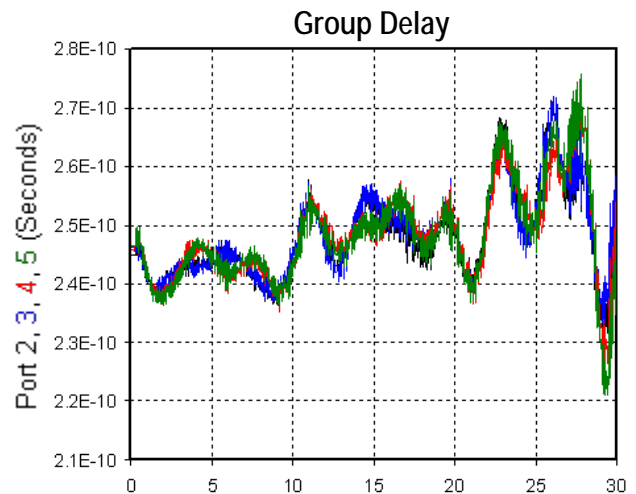
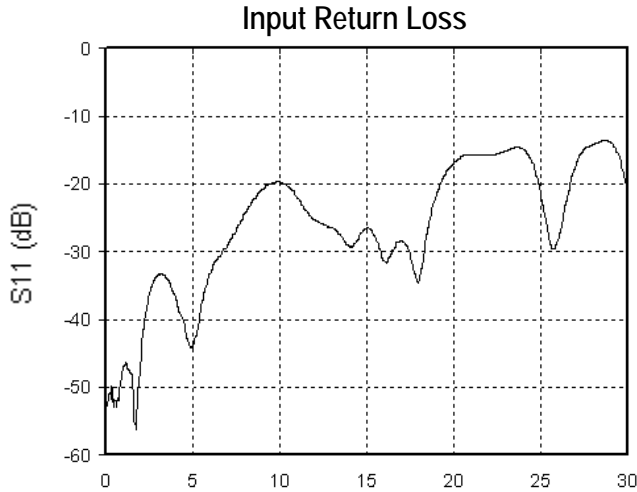
Parameter	Value
Bandwidth (-3 dB)	>25 GHz, guaranteed
Insertion Loss	12 dB, nominal DC 12.5 $\pm$ 1.25dB, 0-25 GHz, guaranteed
Risetime (10% - 90%)	$\leq 15$ ps
Return Loss	>15 dB, 0-18 GHz, guaranteed $\geq 10$ dB, 18-25 GHz, guaranteed
Input Impedance @ DC (ports 1 through 5)	50 $\pm$ 1 $\Omega$ , guaranteed
Insertion Loss Asymmetry (S31-S21)	$\leq 0.7$ dB, 0-25 GHz, guaranteed
Phase Tracking (S51 through S21)	$\leq 10$ deg, 0-25 GHz, guaranteed
Group Delay	245 ps, 0-25 GHz, typical

# PSPL5333 1:4 Resistive Divider

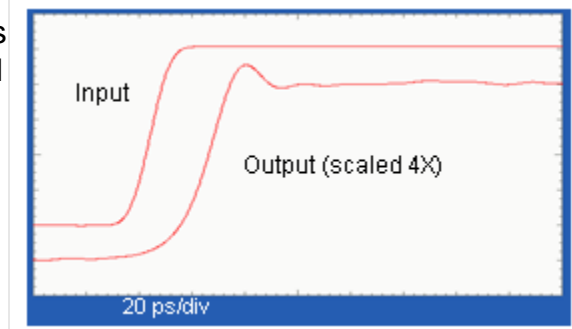
Parameter	Value
Temperature Range	0-90 °C @ 1.5 W, Operating Case Temperature Linearly derated to 0W @ 110 °C
Max Input Power (Avg)	1.5 Watts, CW
Warranty	One Year

**Note:** All parameters listed are typical unless max/min guaranteed limits are provided. Measurements made with 50 Ω matched line/load at output ports.

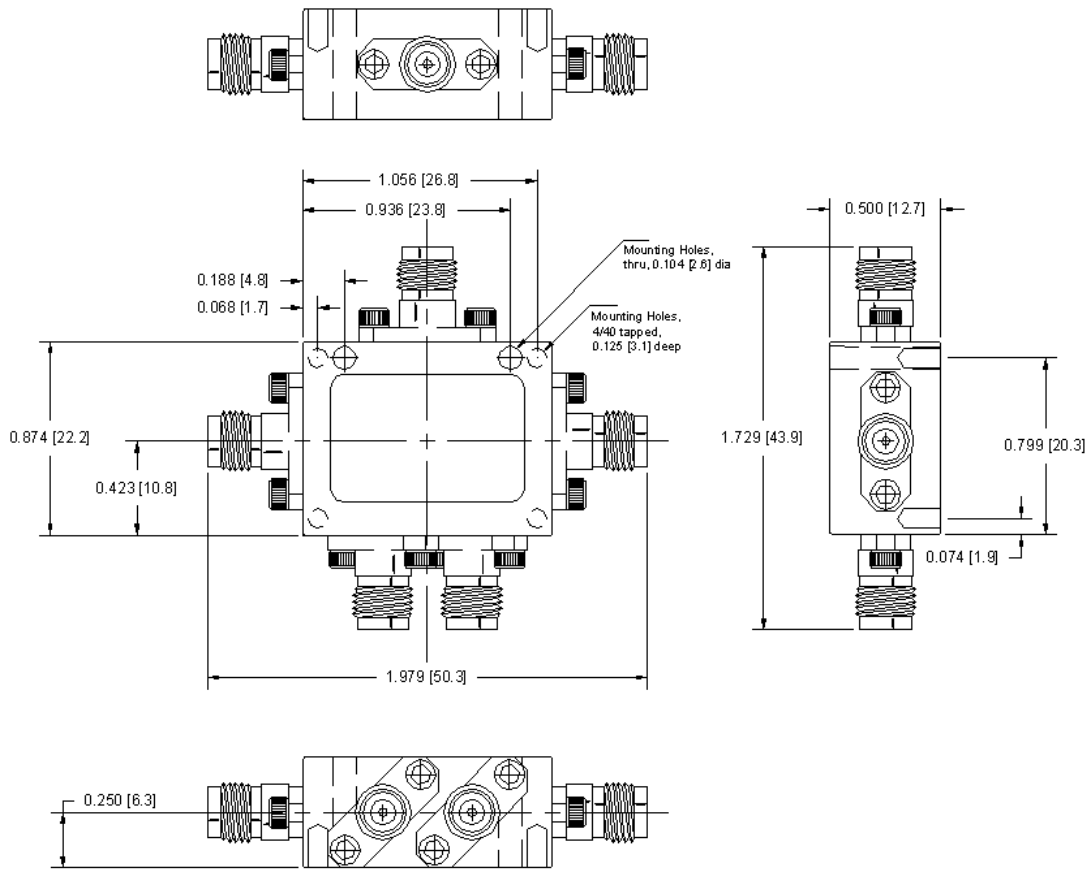
## Typical Performance



Transmission Response to 15 ps  
Risetime Step into Port 1



## PSPL5334 Mechanical dimensions



## Ordering information

Model	Description
PSPL5334	QUAD DIVIDER, 12dB

# PSPL5333 1:4 Resistive Divider

ASEAN / Australasia (65) 6356 3900

Belgium 00800 2255 4835\*

Central East Europe and the Baltics +41 52 675 3777

Finland +41 52 675 3777

Hong Kong 400 820 5835

Japan 81 (3) 6714 3010

Middle East, Asia, and North Africa +41 52 675 3777

People's Republic of China 400 820 5835

Republic of Korea 001 800 8255 2835

Spain 00800 2255 4835\*

Taiwan 886 (2) 2722 9622

\* European toll-free number. If not accessible, call: +41 52 675 3777

Austria 00800 2255 4835\*

Brazil +55 (11) 3759 7627

Central Europe & Greece +41 52 675 3777

France 00800 2255 4835\*

India 000 800 650 1835

Luxembourg +41 52 675 3777

The Netherlands 00800 2255 4835\*

Poland +41 52 675 3777

Russia & CIS +7 (495) 6647564

Sweden 00800 2255 4835\*

United Kingdom & Ireland 00800 2255 4835\*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777

Canada 1 800 833 9200

Denmark +45 80 88 1401

Germany 00800 2255 4835\*

Italy 00800 2255 4835\*

Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90

Norway 800 16098

Portugal 80 08 12370

South Africa +41 52 675 3777

Switzerland 00800 2255 4835\*

USA 1 800 833 9200

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