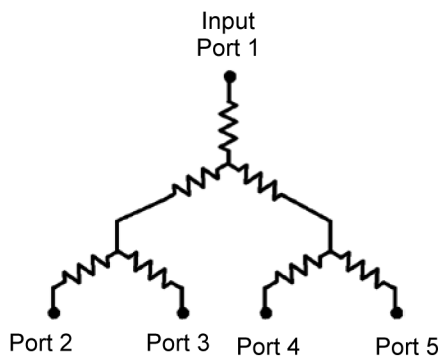
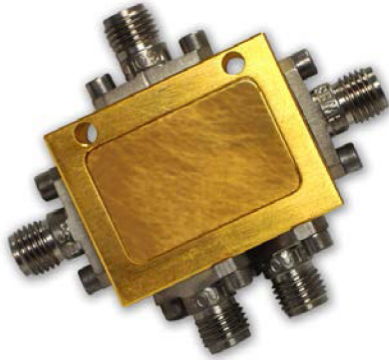


1:4 Resistive Divider

PSPL5334 1:4 Resistive Divider

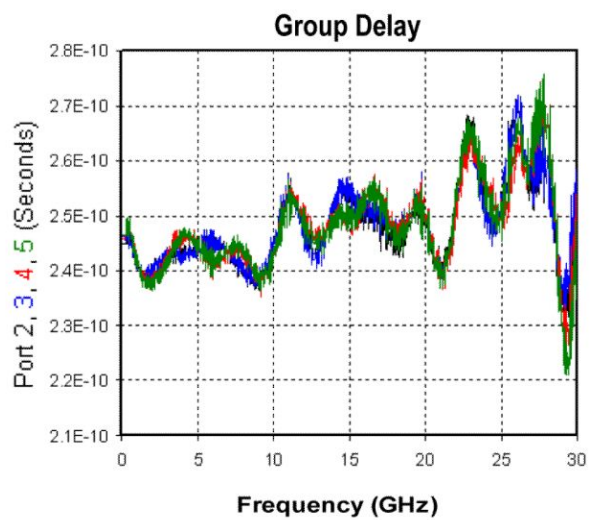
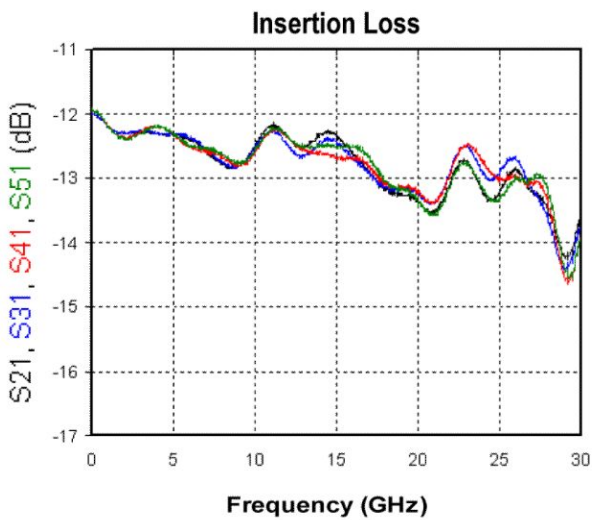
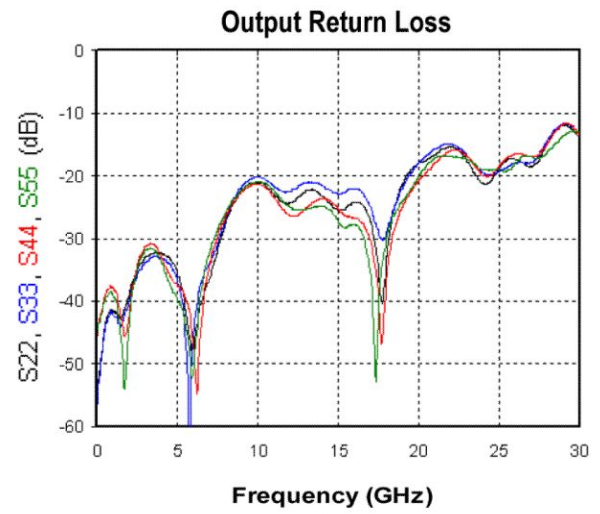
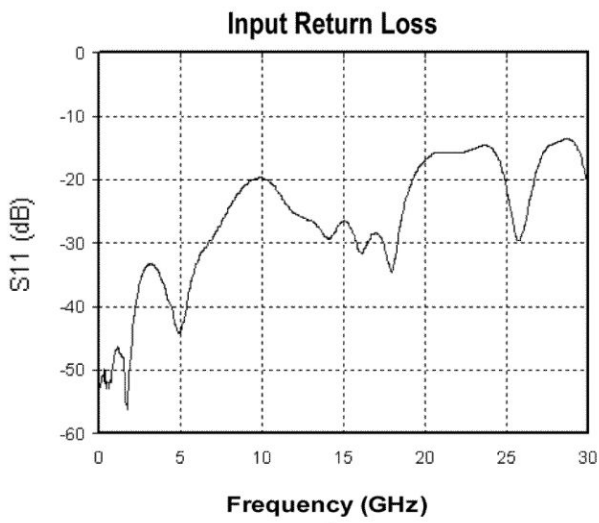


The PSPL5334 Resistive Divider is an Ultra-Broadband Resistive Coupler that provides even division of an input signal between four output ports. The device exhibits excellent through-line insertion loss stability for frequencies from DC to >25 GHz. The PSPL5334 features good impedance match across a wide range of frequencies, with Return Loss typically >15 dB from 0-25 GHz. Resistors are accurate within $\pm 2\%$, providing excellent input matching.

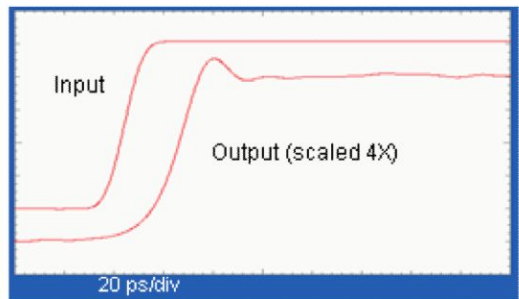
Key performance specifications

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

Typical performance



Transmission Response to 15 ps Rise time Step into Port 1

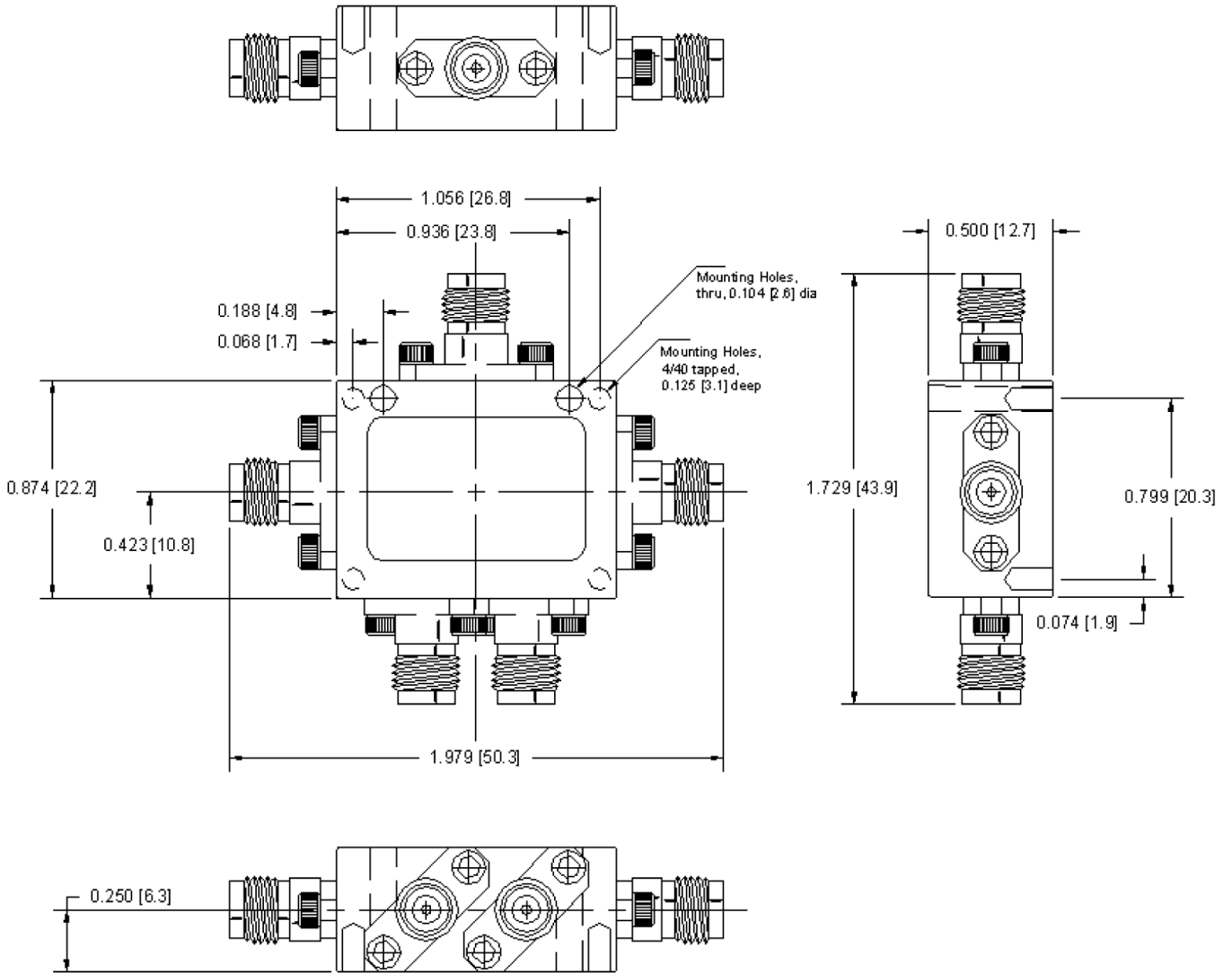


Specifications

Parameter ¹	Value
Bandwidth (-3 dB)	>25 GHz, guaranteed
Insertion Loss	12 dB, nominal DC 12.5 ±1.25 dB, 0-25 GHz, guaranteed
Rise time (10% - 90%)	≤15 ps
Return Loss	>15 dB, 0-18 GHz, guaranteed ≥10 dB, 18-25 GHz, guaranteed
Impedance @ DC (ports 1 through 5)	50 ±1 Ω, guaranteed
Insertion Loss Asymmetry (S31-S21)	≤0.7 dB, 0-25 GHz, guaranteed
Phase Tracking (S51 through S21)	≤10 deg, 0-25 GHz, guaranteed
Group Delay	245 ps, 0-25 GHz, typical
Temperature Range	0-90 °C @ 1.5 W, Operating Case Temperature Linearly derated to 0 W @ 110 °C
Max Input Power (Avg)	1.5 Watts, CW
Connectors	SMA jacks (f)
Warranty	One Year

¹ All parameters listed are typical unless max/min guaranteed limits are provided. Measurements made with 50 Ω matched line/load at output ports.

Mechanical dimensions



Ordering information

Models

PSPL5334

Quad Divider, 12 dB

ASEAN / Australasia (65) 6356 3900
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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*
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Norway 800 16098
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Switzerland 00800 2255 4835*
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* European toll-free number. If not accessible, call: +41 52 675 3777

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