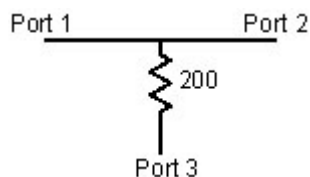


# 14dB 5x Pick-off Tee

## PSPL5361 Datasheet



The PSPL5361 is a broadband, resistive pick-off tee. The pick-off Port 3 output is a 1/5 scale replica of the signal passing through the tee. The PSPL5361 exhibits excellent through-line insertion loss and pickoff stability from DC to over 40 GHz. It also features <10 ps risetime. Pickoff resistor tolerance of 1% ensures excellent DC accuracy.



- DC to >40 GHz
- 10 ps risetime
- 14 dB

## Specifications

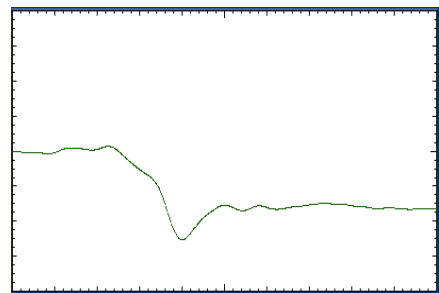
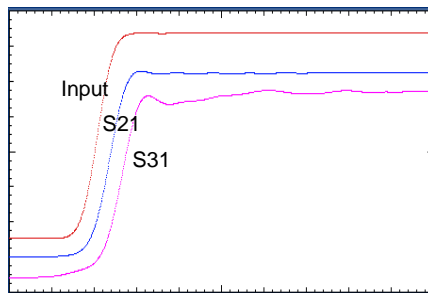
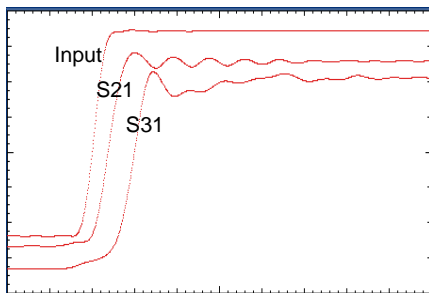
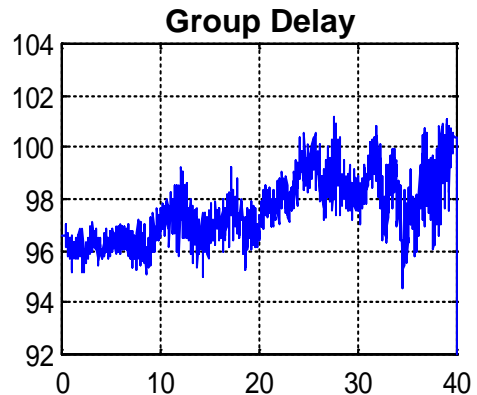
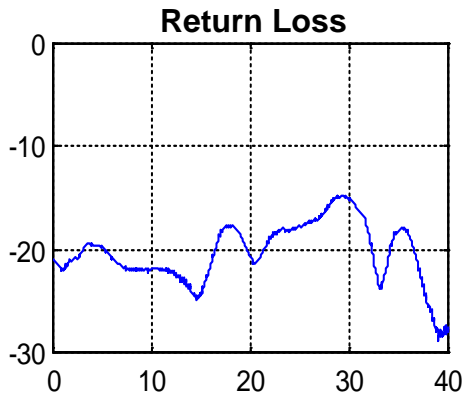
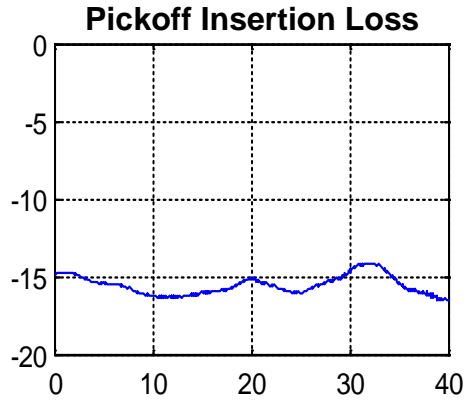
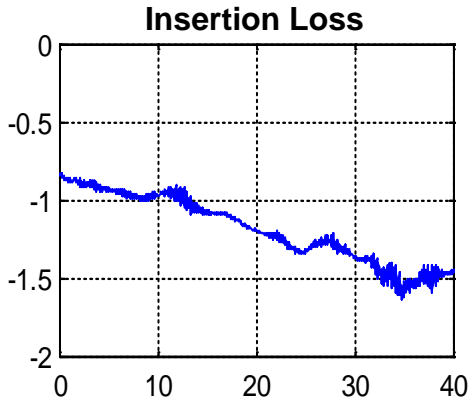
Parameter	Value
Risetime	7 ps, through-line 11 ps, pick-off line
Bandwidth	DC to >40 GHz
Through-line Insertion Loss, DC	0.8 dB
Through-line Insertion Loss, AC	<1.2 dB, 0 – 15 GHz <1.8 dB, 15 – 40 GHz ≤2.0 dB, 0 – 40 GHz, guaranteed 2.0 dB, typical at 50 GHz, 2.4mm connectors
Pickoff Resistor	200 Ω ±1%
Pickoff Insertion Loss, DC	14.8 dB
Pickoff Insertion Loss, AC	15 ±1 dB, 0 – 40 GHz 18 dB, typical at 50 GHz, 2.4mm connectors
Delay	98 ps
Input Impedance, DC	41.7 Ω, port 1 and 2
Return Loss (Port 1 and 2)	>20 dB, DC >17 dB, 0 – 15 GHz >12 dB, 15 – 40 GHz
Max Input Power, avg	3.5 Watts, CW
Temperature Range	-55 to 90 °C
Warranty	One Year

# PSPL5361 14 dB 5x Pick-Off Tee

**Notes:** All parameters listed are typical unless max/min guaranteed limits are provided. The DC specs are valid only when used with 50Ω source and terminations.

## Typical Performance

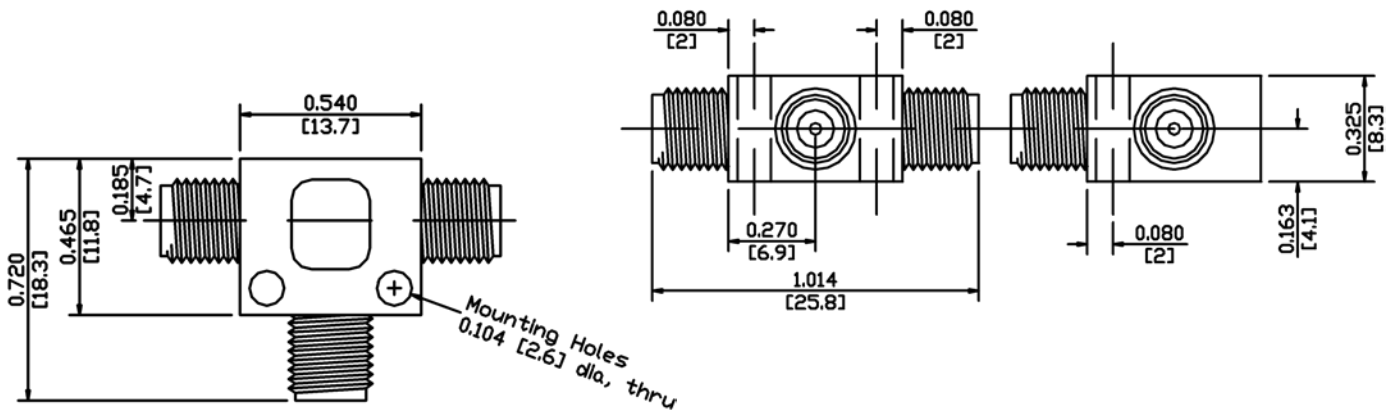
Frequency Domain Responses from 40 MHz to 40 GHz



Transmission Responses to 10 and 15 ps risetime steps into Port 1. Timebase 20 ps/div. Pickoff Transmission (S31) scaled 5x.

S11 Input TDR Response to 25 ps Risetime TDR Pulse, Scale 5% p/div, Timebase 50 ps/div

## PSPL5361 Mechanical dimensions



Dimensions in inches and [millimeters]  
 Tolerance = +/- 0.005 [0.13]  
 Connectors are 2.92mm, 'K'  
 2.4mm Connectors Optional

## Ordering information

Model	Description
PSPL5361	Pick-Off Tee, 14dB, 5x

## Options

- Opt. 240JJJ 2.4mm connectors, Port 1: female, Port 2: female, Port 3: female
- Opt. 240JPJ 2.4mm connectors, Port 1: female, Port 2: male, Port 3: female
- Opt. 292JJJ 2.92mm connectors, Port 1: female, Port 2: female, Port 3: female

# PSPL5361 14 dB 5x Pick-Off Tee

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**For Further Information.** Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

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