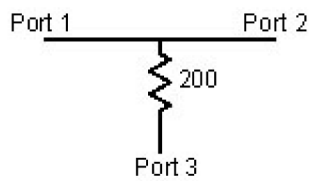


# 14 dB 5x Pick-off Tee

## PSPL5361 Datasheet



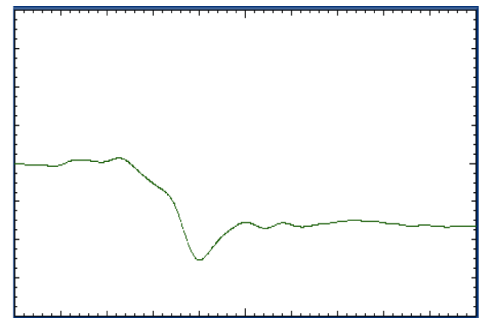
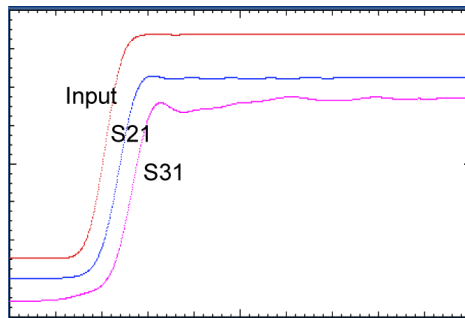
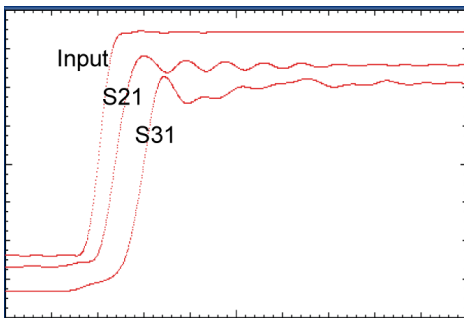
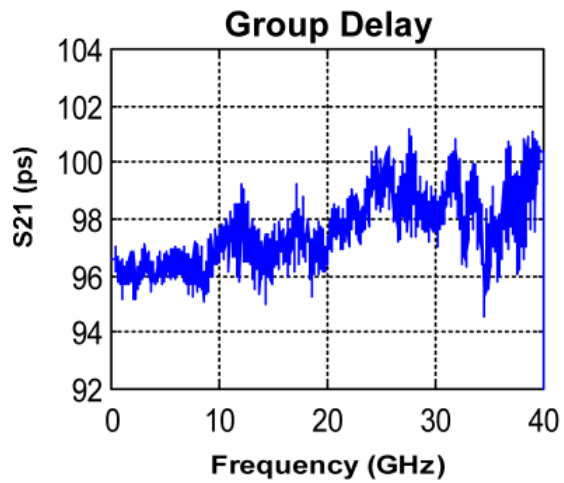
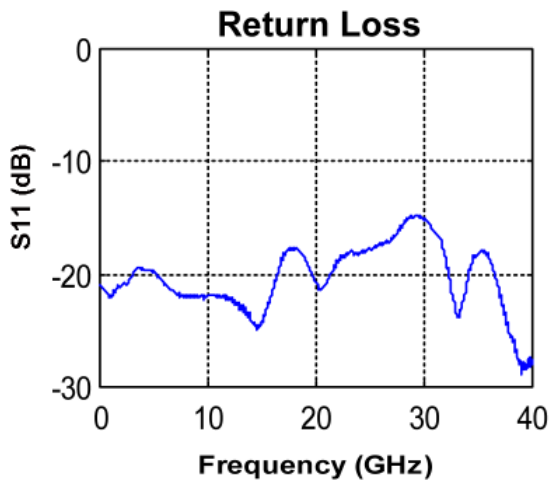
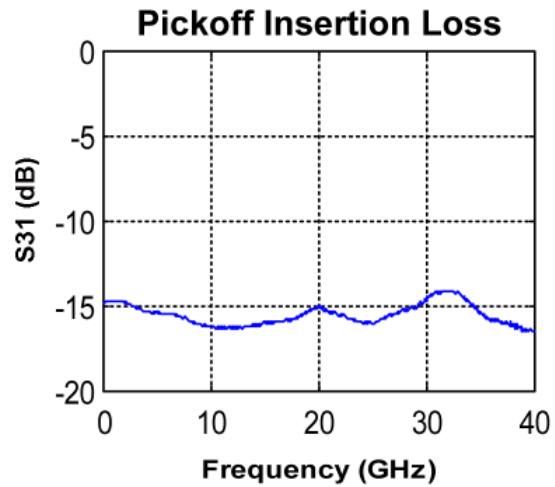
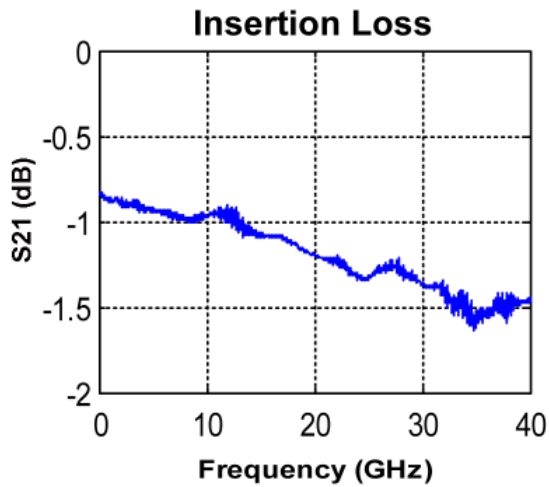
The PSPL5361 is a broadband, resistive pick-off tee. The pick-off Port 3 output is a 1/5 scale replica of the signal passing through the tee. The PSPL5361 exhibits excellent through-line insertion loss and pick-off stability from DC to over 40 GHz. It also features <11 ps rise time. Pick-off resistor tolerance of 1% ensures excellent DC accuracy.

### Key performance specifications

- DC to >40 GHz
- 11 ps rise time
- 14 dB

## Typical performance

Frequency Domain Responses from 40 MHz to 40 GHz



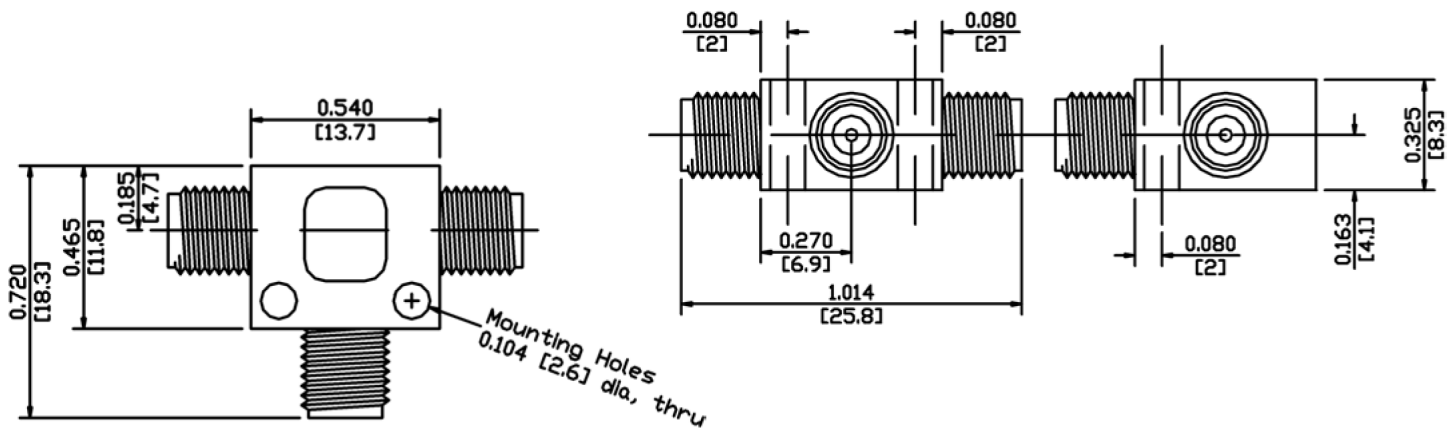
Transmission Responses to 10 and 15 ps Rise time steps into Port 1. Timebase 20 ps/div. Pick-off Transmission (S31) scaled 5x.

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

## Specifications

Parameter <sup>1</sup>	Value
Rise time	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
Pick-off Resistor	200 Ω ±1%
Pick-off Insertion Loss, DC	14.8 dB
Pick-off Insertion Loss, AC	15 ±1 dB, 0 – 40 GHz
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 @3.5 W, linearly derate to 0 W at 110 °C
Connectors	2.92 mm jacks (f)
Warranty	One Year

## Mechanical dimensions



Dimensions in inches and [millimeters]  
Tolerance = +/- 0.005 [0.13]

<sup>1</sup> All parameters listed are typical unless max/min guaranteed limits are provided. The DC specs are valid only when used with 50 Ω source and terminations.

## Ordering information

### Models

PSPL5361 Pick-Off Tee, 14 dB, 5x

### Ordering information

OPT 292JJJ 2.92 mm connectors, Ports 1,2,3 = jacks (f)

**ASEAN / Australasia** (65) 6356 3900  
**Belgium** 00800 2255 4835\*  
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**Finland** +41 52 675 3777  
**Hong Kong** 400 820 5835  
**Japan** 81 (3) 6714 3086  
**Middle East, Asia, and North Africa** +41 52 675 3777  
**People's Republic of China** 400 820 5835  
**Republic of Korea** +822 6917 5084, 822 6917 5080  
**Spain** 00800 2255 4835\*  
**Taiwan** 886 (2) 2656 6688

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**France** 00800 2255 4835\*  
**India** 000 800 650 1835  
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**The Netherlands** 00800 2255 4835\*  
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**Portugal** 80 08 12370  
**South Africa** +41 52 675 3777  
**Switzerland** 00800 2255 4835\*  
**USA** 1 800 833 9200

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

**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. Please visit [www.tek.com](http://www.tek.com).

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