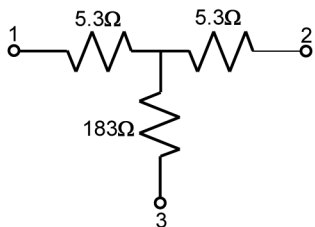
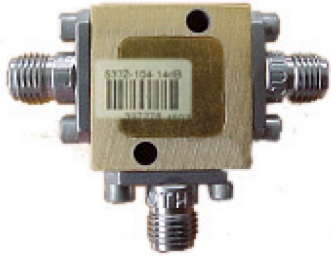


Z-Matched Pick-off Tee

PSPL5372 Datasheet

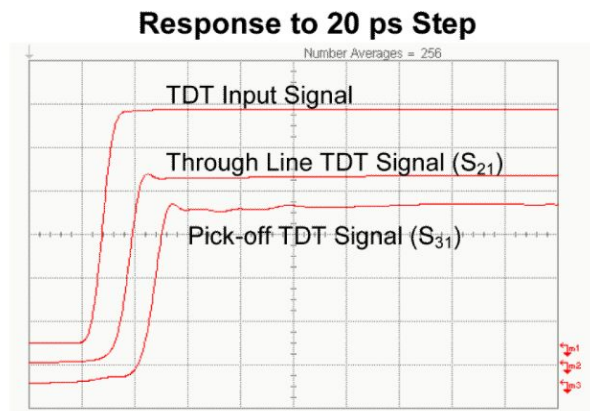
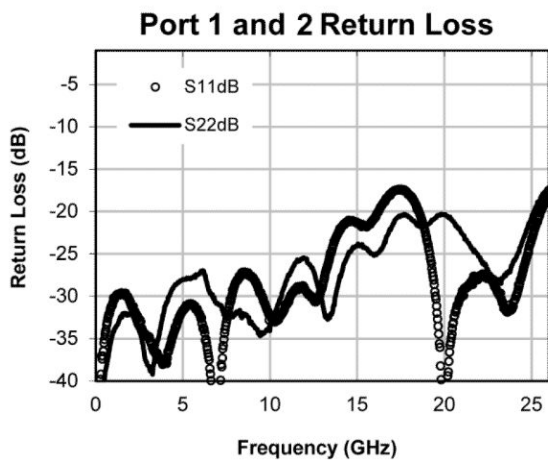
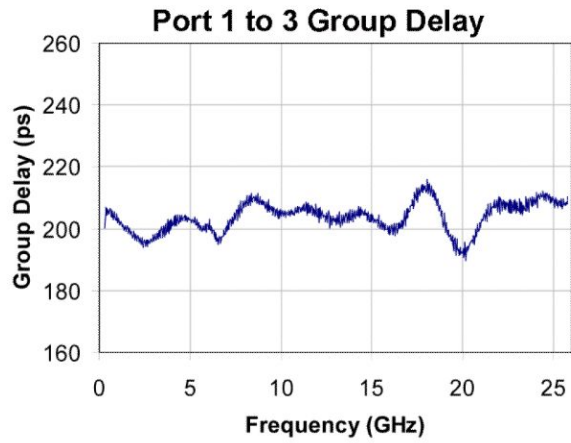
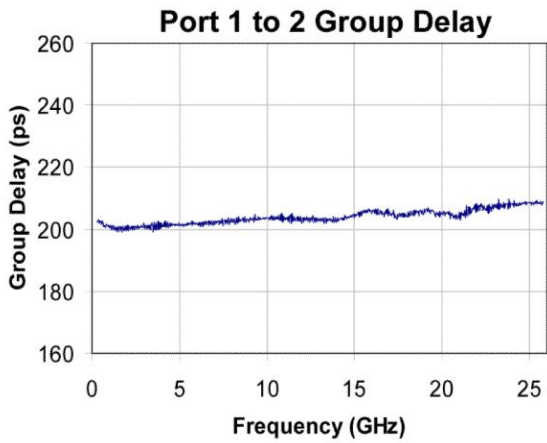
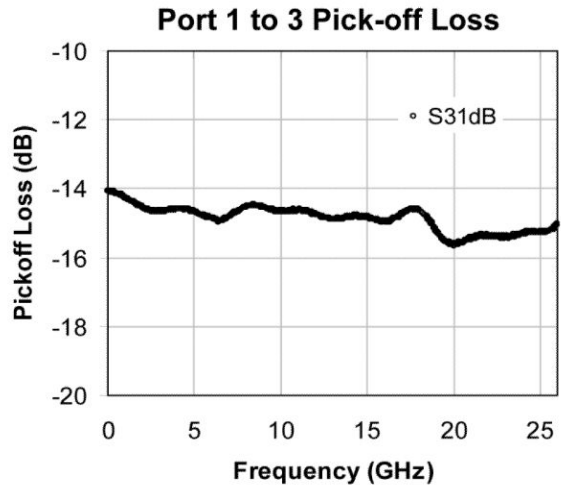
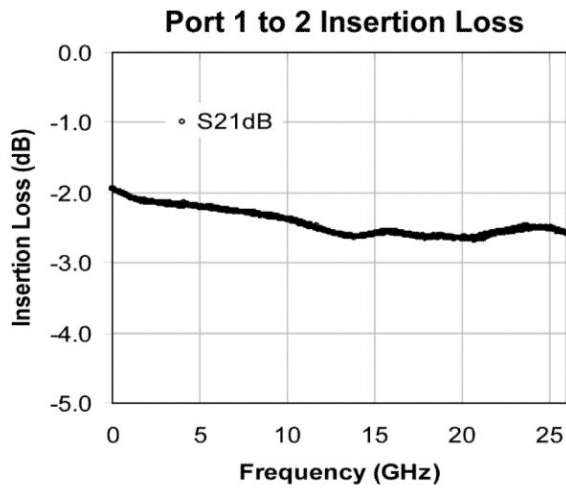


The PSPL5372 Z-Matched Pick-off Tee is an ultra-broadband resistive device that provides a scaled 5x (14 dB) pick-off of the input signal. The PSPL5372 exhibits excellent through-line impedance match to 50 ohms for frequencies from DC to 26 GHz, unlike conventional 14 dB pick-off tees that have DC resistance of 42 ohms at the input. The PSPL5372 features outstanding insertion loss and group delay flatness. Either Port 1 or Port 2 may be used as the input.

Key performance specifications

- Excellent Through-Line Impedance Match
- Minimizes Signal Reflections
- DC to 26 GHz
- 5x (14 dB) Pick-off

Typical performance

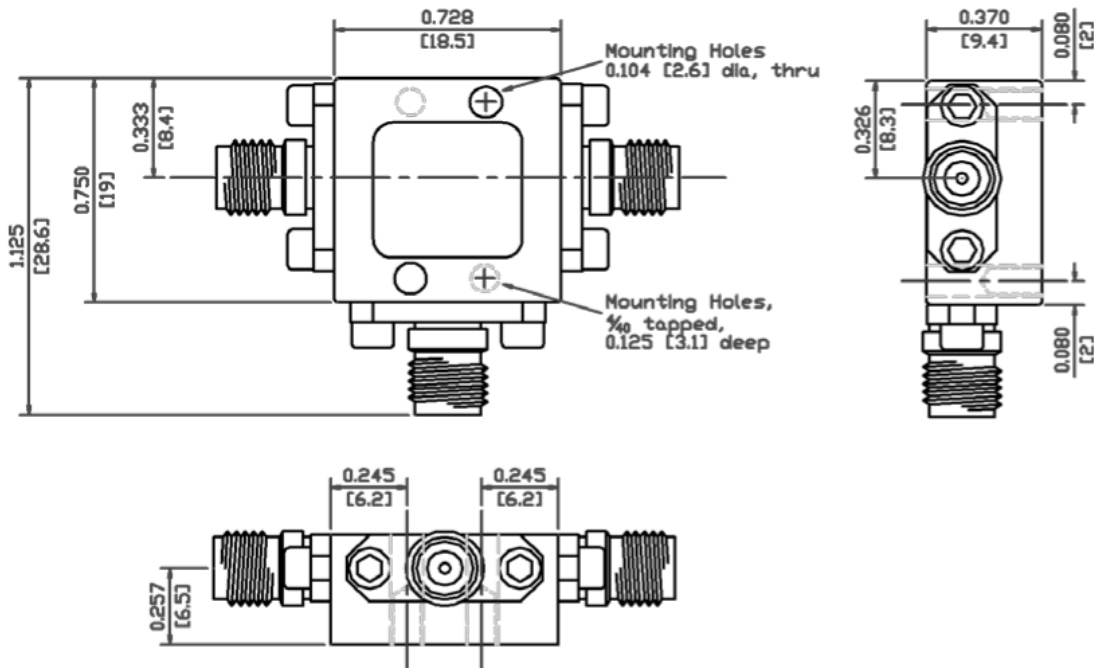


Amplitude scale: Input and S₂₁ = 35 mV/div, S₃₁ = 9 mV/div, Time scale = 50ps/div

Specifications

Parameter ¹	Minimum	Typical	Maximum	Comments
Pick-off Insertion Loss (S31)	-13.6 dB	-14.7 dB	-16.4 dB	Specified from 40 MHz – 20 GHz
Through-line Insertion Loss (S21)	-1.7 dB	-2.0 dB	-3.1 dB	Specified from 40 MHz – 20 GHz
Return Loss to 14 GHz (S11/S22)		-25 dB		Also see S11/S22 plot
Return Loss to 20 GHz (S11/S22)	-15 dB			Also see S11/S22 plot
Through-line rise time (10% - 90%)		12 ps		Port 1 to 2, see plot
Pick-off rise time (10% - 90%)		15 ps		Port 1 to 3, see plot
Through-line Group Delay Variation		±5 ps		Port 1 to 2, DC to 26 GHz
Pick-off Group Delay Variation		±10 ps		Port 1 to 3, DC to 26 GHz
Input/Output Impedance @ DC (port 1 or port 2)		50 Ω		
Temperature Range (°C)	-55 °C		90 °C	Operating
Input Power, (Port 1 or 2, Avg)			2 W	
Connectors	SMA jacks (f)			
Warranty	One year			

Mechanical dimensions



¹ 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

PSPL5372

Pick-Off Tee, 2 port Z-matched

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

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

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

Updated 10 April 2013

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.tektronix.com.

Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.



21 Aug 2014

1PW-30594-0

www.tektronix.com

Tektronix[®]

