Passive 1x/10x Voltage Probe

P2220 • P2221 Data Sheet



P2220

Features & Benefits

- 1x/10x Attenuation
- 200 MHz Bandwidth
- 1.5 m Length
- UL3111-1, CSA1010.1, EN61010-1, EN61010-2-031, and IEC61010-2-031

Applications

- Relative Low-frequency Measurements
- Low-frequency Computer and Telecom Measurements
- Power Supplies
- Low-frequency Amplifiers

P2220, P2221 Passive Voltage Probes

The P2220 and P2221, 200 MHz passive voltage probes permit selection of 1x or 10x attenuation, using a switch located on the probe head. The P2220 probe is compatible with TDS200, TDS1000, TDS1000B, TDS2000, TDS2000B, and TPS2000 Series oscilloscopes. The P2220 probe also provides floating measurement capability up to 30 V_{RMS} with TPS2000 Series oscilloscopes only. (Note: Do not float with TDS2000, TDS2000B, TDS1000B, or TDS2000 Series oscilloscopes.) The P2221 is compatible with MSO2000 and DPO2000 Series oscilloscopes.



Characteristics

10x Position

Bandwidth - DC to 200 MHz Probe Length – 1.5 m Attenuation Ratio - 10:1 Compensation Range -P2220: 15 to 25 pF P2221: 10 to 25 pF Input Capacitance -P2220: 17.0 pF (typ) P2221: 17.0 pF (typ) Input Resistance – 10 MΩ Maximum Input Voltage - 300 V CAT II Maximum Voltage Between Reference Lead and Earth Ground – 30 V_{RMS}*1

1x Position

Bandwidth - DC to 6 MHz Probe Length - 1.5 m Attenuation Ratio - 1:1 Compensation Range – All oscilloscopes with 1 MΩ input Input Capacitance -P2220: 110 pF (typ) P2221: 110 pF (typ) Input Resistance – 1 MΩ Maximum Input Voltage - 150 V CATII

Maximum Voltage Between Reference Lead and Earth Ground – 30 $V_{\text{RMS}} \star^{11}$ *1 The float voltage must be subtracted from the tip to earth ground voltage. For example, if the reference lead is floated to 30 V_{RMS} while the probe is in the 10x position, the tip voltage to the reference lead is limited to 270 V_{RMS}

Ordering Information

P2220

Passive Probe, 1x/10x, 200 MHz Passive Voltage Probe.

Includes: Retractable hook tip (013-0107-xx), 6-inch ground lead (196-3466-xx), adjustment tool (003-1433-xx), marker band set (016-1315-xx), Instruction Manual (071-1464-xx).*2

P2221

Passive Probe, 1x/10x, 200 MHz Passive Voltage Probe for MSO/DPO2000 Series oscilloscopes.

Includes: Retractable hook tip (013-0107-xx), 6-inch ground lead (196-3466-xx), adjustment tool (003-1433-xx), marker band set (016-1315-xx), Instruction Manual (071-2335-xx).*2

*2 The accessory quantities may differ when multiple probes are shipped with an oscilloscope/probe system.

CE

www.tektronix.com

Contact Tektronix:

ASEAN / Australasia (65) 6356 3900 Austria +41 52 675 3777 Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777 Belgium 07 81 60166 Brazil +55 (11) 40669400 Canada 1 (800) 661-5625 Central East Europe, Ukraine, and the Baltics +41 52 675 3777 Central Europe & Greece +41 52 675 3777 Denmark +45 80 88 1401 Finland +41 52 675 3777 France +33 (0) 1 69 86 81 81 Germany +49 (221) 94 77 400 Hong Kong (852) 2585-6688 India (91) 80-42922600 Italy +39 (02) 25086 1 Japan 81 (3) 6714-3010 Luxembourg +44 (0) 1344 392400 Mexico, Central/South America & Caribbean 52 (55) 54247900 Middle East, Asia, and North Africa +41 52 675 3777 The Netherlands 090 02 021797 Norway 800 16098 People's Republic of China 86 (10) 6235 1230 Poland +41 52 675 3777 Portugal 80 08 12370 Republic of Korea 82 (2) 6917-5000 Russia & CIS +7 (495) 7484900 South Africa +27 11 206 8360 Spain (+34) 901 988 054 Sweden 020 08 80371 Switzerland +41 52 675 3777 Taiwan 886 (2) 2722-9622 United Kingdom & Ireland +44 (0) 1344 392400 USA 1 (800) 426-2200

For other areas contact Tektronix, Inc at: 1 (503) 627-7111

Updated 30 October 2008

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.

02 Jun 2009

51W-17984-1



www.valuetronics.com