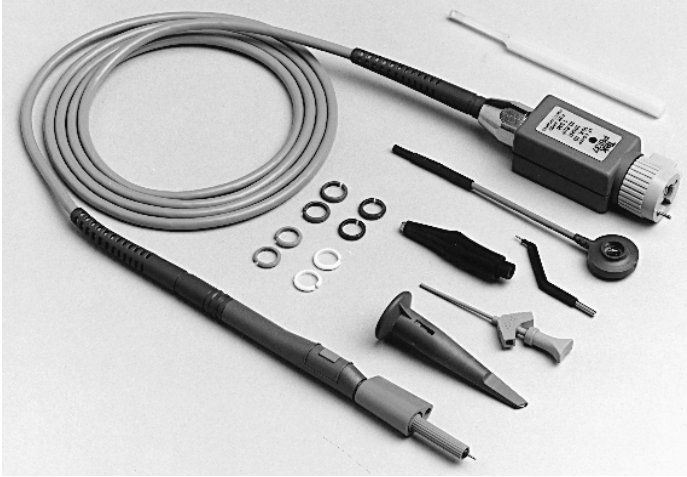


# Passive Voltage Probes

## P6131 • P6137 • P6138A Data Sheet



P6137 Probe.

### Features & Benefits

- Small Geometry Tips – Easier Circuit Access
- Readout for 10X Attenuation Factor – Reduces Confusion and Errors in Measurement Readings
- Flexible Lightweight Cable – Easier to Use and Reduces Mechanical Stress to Device Under Test
- HYBRID/SMT Circuitry – Provides Improved Performance and Reliability
- Modularity – Provides Lower Cost of Ownership
- Compact-size Accessories – Provides Compatibility with Existing Adapters
- UL3111-2-031, CSA1010.2.032, EN61010-2-031 (UL1244, CSA231 – P6137 only)

### Applications

- High- and Low-frequency Relative Measurements for:
  - Design
  - Service
  - Manufacturing

This family of oscilloscope probes sets the standard for high-performance passive voltage probes. Continued growth of the family paces the new series of Tektronix high-performance benchtop oscilloscopes, the TDS400/500/600/700/3000B/5000/7000B Series high-performance portable oscilloscopes.

These probes feature modular construction, HYBRID/SMT circuitry, a smaller probe head/cable assembly than traditional passive probes, 10X attenuation readout encoding, and a full complement of attachment accessories. Smaller probe tips and lightweight cable assemblies allow easy negotiation of dense circuitry or tight spaces.

The compact probe head/tip assembly is compatible with the full line of compact accessories. When the Subminiature/Compact-to-Miniature probe tip adapter (013-0202-03) is installed over the probe head/tip, the P6138A probes are fully compatible with all miniature tip accessories.

The P6138A's design meets the TDS400 Series signal path requirements, helping to ensure the highest accuracy ever in a general-purpose oscilloscope.

## Characteristics

Type	Cable Length in Meters	Bandwidth MHz	Atten.	Comp. Range pF	Input C pF	System Input Resistance MΩ	Input Voltage	Readout ID/Ground Ref.	Scope/Product Compatibility
P6131	1.3	300	10X	14 to 18	10.8	10	150 V <sub>RMS</sub> CATII	Y/N/N	2400 Series (2445, 2465)
P6137	1.5	400	10X	12 to 18	10.8	10	400 VDC + pkAC	Y/N/N	2400 Series (2432/A/M, 2440/MU, 2445B, 2465B, 2467B/HD)
P6138A	1.3	400	10X	12 to 18	10	10	300 V <sub>RMS</sub> CATII	Y/N/N	TDS400 Series

NOTE: Maximum voltage DC + peak AC ≤ 500.



Product(s) are manufactured in ISO registered facilities.

**Contact Tektronix:**

ASEAN / Australasia (65) 6356 3900  
Austria 00800 2255 4835\*  
Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777  
Belgium 00800 2255 4835\*  
Brazil +55 (11) 3759 7600  
Canada 1 800 833 9200  
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 00800 2255 4835\*  
Germany 00800 2255 4835\*  
Hong Kong 400 820 5835  
India 000 800 650 1835  
Italy 00800 2255 4835\*  
Japan 81 (3) 6714 3010  
Luxembourg +41 52 675 3777  
Mexico, Central/South America & Caribbean (52) 56 04 50 90  
Middle East, Asia, and North Africa +41 52 675 3777  
The Netherlands 00800 2255 4835\*  
Norway 800 16098  
People's Republic of China 400 820 5835  
Poland +41 52 675 3777  
Portugal 80 08 12370  
Republic of Korea 001 800 8255 2835  
Russia & CIS +7 (495) 7484900  
South Africa +41 52 675 3777  
Spain 00800 2255 4835\*  
Sweden 00800 2255 4835\*  
Switzerland 00800 2255 4835\*  
Taiwan 886 (2) 2722 9622  
United Kingdom & Ireland 00800 2255 4835\*  
USA 1 800 833 9200

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

Updated 25 May 2010

**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](http://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.

29 Nov 2010

60W-15107-2

