

Passive 10X Voltage Probe

TPP0100, TPP0101 Datasheet



Key features

- 10X Attenuation
- 100 MHz Bandwidth
- 1.3 m Length
- UL61010-031; 2007, CAN/CSA C22.2 No. 61010-031-07, IEC61010-031; IEC 61010-031/A1:2008
- Applications:
 - Relative low-frequency measurements
 - Low-frequency computer and telecom measurements
 - Power supplies
 - Low-frequency amplifiers

TPP0100, TPP0101 Passive Voltage probes

The TPP0100 and TPP0101 probes are for use on BNC oscilloscopes with 1 M Ω /13 pF (TPP0100) and 1 M Ω /20 pF (TPP0101) inputs.

The TPP0100 and TPP0101 probes are 100 MHz, 10X passive voltage probes with 10 M Ω input resistance.

Specifications

All specifications are guaranteed unless noted otherwise. All specifications apply to all models unless noted otherwise.

Electrical characteristics

| | |
|------------------------------|-----------------------------|
| Bandwidth | DC to 100 MHz |
| Rise time | <3.5 ns (typical) |
| Compensation range | |
| TPP0100 | 8 pF to 18 pF |
| TPP0101 | 15 pF to 25 pF |
| Input resistance | 10 M Ω \pm 1.5% |
| Input capacitance | <12 pF (typical) |
| Propagation delay | \sim 6.1 ns |
| Maximum input voltage | 300 V _{RMS} CAT II |

Physical characteristics

| | |
|---------------------------|----------------|
| Probe cable length | 1.3 m (4.2 ft) |
|---------------------------|----------------|

EMC, environment, and safety

| | |
|-----------------------------------|--|
| Temperature range | |
| Operating | -10 °C to +55 °C (14 °F to 131 °F) |
| Nonoperating | -51 °C to +71 °C (-60 °F to 160 °F) |
| Humidity | |
| Operating and nonoperating | 5% to 95% relative humidity (%RH) up to 30 °C (86 °F), 5% to 65% RH above +30 °C (86 °F) up to +55 °C (131 °F) |
| Altitude | |
| Operating | <3 km (9,842 ft) |
| Nonoperating | <12.2 km (40,026 ft) |

Ordering information

Models

| | |
|---------|---|
| TPP0100 | For use with BNC oscilloscopes with 1 M Ω , 13 pF inputs |
| TPP0101 | For use with BNC oscilloscopes with 1 M Ω , 20 pF inputs |

Probe packages

| | |
|--------------|---------------------------|
| TPP0101-PK10 | 10-pack of TPP0101 probes |
| TPP0101-PK50 | 50-pack of TPP0101 probes |

Standard accessories

| | |
|-------------|-----------------------------|
| 003-1433-xx | Adjustment tool |
| 013-0362-xx | Retractable hook tip |
| 016-0633-xx | Color bands, 5 pairs |
| 016-2028-xx | Long ground spring, 2 each |
| 196-3521-xx | 6 in. alligator ground lead |

Warranty

One-year warranty covering all parts and labor.

Recommended accessories

| | |
|-------------|---|
| 013-0363-xx | Micro hook tip |
| 013-0366-xx | Universal IC cap |
| 013-0367-xx | BNC-to-probe tip adapter, unterminated |
| 016-2016-xx | PCB-to-probe tip adapter, 10-pack |
| 016-2034-xx | Short ground spring, 2 each |
| 131-8831-xx | Compact probe-tip chassis mount |
| 196-3198-xx | 6 in. clip-on ground lead with 0.025 in. pin receptacle |
| 196-3512-xx | 12 in. alligator ground |
| 206-0569-xx | MicroCKT test tip |



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

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 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

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

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.

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.

