

Passive 10X Voltage Probe

TPP0100, TPP0101 Datasheet



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

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.

For a complete list of compatible oscilloscopes, refer to the Tektronix Oscilloscope Probe & Accessory Selector Tool at <http://www.tek.com/probes>.

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	~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)
Non-operating	-51 °C to +71 °C (-60 °F to 160 °F)

Humidity	
Operating and non-operating	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)
Non-operating	<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 ISO 14001:2015 and ISO 9001:2015 certified by DEKRA.



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 (120) 441 046
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.