# Passive Voltage Probes TPP1000 • TPP0500 Data Sheet



# Features & Benefits

## **Key Performance Specifications**

- 1 GHz and 500 MHz Probe Bandwidth Models
- < 4 pF Input Capacitance</p>
- 10X Attenuation Factor
- 300 V CAT II Input Voltage
- Designed for Use with the MSO/DPO4000B and MSO/DPO5000 Series of Oscilloscopes

### **Ease-of-Use Features**

- Compact Probe Head for Probing Small Geometry Circuit Elements
- Small Probe Body for Enhanced Visibility to the Device-Under-Test
- Rigid Tip for Secure Device-Under-Test Connectivity
- Replaceable Probe Tip Cartridges
- Large Accessory Set for Versatile Connectivity

### Connectivity

- Integrated Oscilloscope and Probe Measurement System Provides Intelligent Communication that Automatically Scales and Adjusts Units on the Oscilloscope Display to Match the Probe Attenuation
- Built-in AC Compensation Optimizes Signal Path Across the Entire Frequency Range

# Applications

- Low Power Devices
- Service
- Manufacturing Engineering Test
- Research and Development

# Accurate High-speed, Passive Probing

The TPP1000 and TPP0500 are high bandwidth, general purpose probes from Tektronix that offer breakthrough specifications previously unrealized in this product class. Designed for use with Tektronix MSO/DPO4000B and MSO/DPO5000 Series oscilloscopes, these probes provide up to 1 GHz of analog bandwidth with less than 3.9 pF of capacitive loading.

The extremely low capacitive loading limits adverse affects on your circuits and is more forgiving of longer ground leads. And with the probe's wide bandwidth, you can see the high frequency components in your signal which is critical for high-speed applications. The TPP1000 and TPP0500 passive voltage probes offer all the benefits of general purpose probes like high dynamic range, flexible connection options, and robust mechanical design, while providing the performance of active probes.

# Characteristics

Attenuation – 10X Dynamic Range – 300 V CAT II Bandwidth – 500 MHz (TPP0500) 1 GHz (TPP1000) Input Impedance at the Probe Tip – 10 MΩ, <4 pF Cable Length – 1.3 m



# **Ordering Information**

#### TPP1000

1 GHz Passive Probe with TekVPI™ Interface.

#### **TPP0500**

500 GHz Passive Probe with TekVPI™ Interface.

### **Standard Accessories**

Description	Quantity Included	Reorder Part Number
Certificate of Traceable Calibration	1	_
Rigid tip 3.8 mm	1	206-0610-00
Flex Ground Spring SHORT 3.8 mm	2	016-2034-00
Long Ground Spring (2 each 214-5176-00)	2	016-2028-00
Alligator Ground (6")	1	196-3521-00
Hook Tip (Regular)	1	013-0362-00
Hook Tip (Micro)	1	013-0363-00
IC Cap (universal) 3.8 mm	1	013-0366-00

#### **Optional Accessories**

Description	Quantity per Package	Order Part Number
Alligator Ground (12")	1	196-3512-00
6" Clip-on Ground Lead (with 0.025 in. Pin Receptacle)	1	196-3198-01
Microcircuit Test Tip	1	206-0569-00
Wire, 32 AWG	Spool	020-3045-00
BNC to Probe Tip Adapter	1	013-0367-00
PCB to Probe Tip Adapter, pack of 10	1	016-2016-00
Compact Probe Tip Chassis Mount Test Jack.	1	131-4210-00
Color Bands (set of 4 color-coded bands)	1	016-0633-00
Tweeker Tool	1	003-1433-02

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🛃 <u>ISO 9001</u>

Product(s) are manufactured in ISO registered facilities.

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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



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