

# Passive 10X Voltage Probe

## TPP0051 Datasheet



### TPP0051 Passive Voltage Probe

The TPP0051 probe is for use on BNC oscilloscopes with 1 M $\Omega$ /20 pF inputs.

### Key performance specifications

- 10X attenuation
- 50 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

- Low-frequency measurements
- Low-frequency computer and telecom measurements
- Power supplies
- Low-frequency amplifiers



## Specifications

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

### Electrical characteristics

<b>Bandwidth</b>	DC to 50 MHz
<b>Rise time</b>	<7 ns (typical)
<b>Compensation range</b>	15 pF to 25 pF
<b>Input resistance</b>	10 M $\Omega$ $\pm$ 1.5%
<b>Input capacitance</b>	<12 pF (typical)
<b>Propagation delay</b>	~6.1 ns
<b>Maximum input voltage</b>	300 V <sub>RMS</sub> CAT II

### Physical characteristics

<b>Cable length</b>	1.3 m (4.2 ft)
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### EMC, environment, and safety

<b>Temperature range</b>	
<b>Operating</b>	10 °C to +55 °C (14 °F to 131 °F)
<b>Nonoperating</b>	-51 °C to +71 °C (-60 °F to 160 °F)
<b>Operating and nonoperating</b>	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)
<b>Altitude</b>	
<b>Operating</b>	<3.0 km (9,842 ft)
<b>Nonoperating</b>	<12.2 km (40,026 ft)

## Ordering information

### Models

TPP0051 For use with BNC oscilloscopes with 1 M $\Omega$ , 20 pF inputs

### 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
020-3045-xx	Wire, 32 AWG spool
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



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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.tek.com](http://www.tek.com).

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