Tektronix®

# Passive 10X Voltage Probe

## TPP0051 Datasheet



### TPP0051 Passive Voltage Probe

The TPP0051 probe is for use on BNC oscilloscopes with 1 MΩ/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

| | |
|---|---|
| **Bandwidth** | DC to 50 MHz |
| **Rise time** | <7 ns (typical) |
| **Compensation range** | 15 pF to 25 pF |
| **Input resistance** | 10 MΩ ±1.5% |
| **Input capacitance** | <12 pF (typical) |
| **Propagation delay** | ~6.1 ns |
| **Maximum input voltage** | 300 $V_{RMS}$ CAT II |

## Physical characteristics

| | |
|---|---|
| **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) |
| **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** | <3.0 km (9,842 ft) |
| **Nonoperating** | <12.2 km (40,026 ft) |

# Ordering information

## Models

| | |
|---|---|
| **TPP0051** | For use with BNC oscilloscopes with 1 MΩ, 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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