## Passive High Voltage Probes <br> - P5100 • P5102 • P5120 • P6015A



- P5120.


## P5100 High Voltage Probe

The P5100 is a low-input capacitance High Voltage Probe ( 2.5 kV ) designed for higher frequency applications. The probe can be compensated to match plug-ins and oscilloscopes with nominal input capacitances of 7 to 30 pF . A variety of screw-on accessories provide easy connection to the device under test.

P5102 \& P5120 IsolatedChannel ${ }^{\text {TM }}$ Applications
In many applications, it is important to be able to isolate the measurement from earth ground and also to isolate the common voltage between channels. The P5102, paired with the THS700
Series handheld digital storage
oscilloscopes, and the P5120, coupled with the TPS2000 Series digital storage oscilloscopes, deliver both the isolation for the measurement from earth ground and full isolation between the channels. The 100 MHz P5102 is designed to give you isolated channel performance for up to $1,000 \mathrm{~V}_{\text {RMS }}$ CAT II when used with the THS700 Series oscilloscopes. The 200 MHz P5120 passive high voltage probe, for use with the TPS2000 Series oscilloscopes, is designed to give you up to $1,000 \mathrm{~V}_{\text {RMS }}$ CAT II of isolated channel performance. A variety of screw-on adapters are available for easy connection to the device under test.

## - Features \& Benefits

 P5100DC to 250 MHz
1000V CAT III (2500 V DC + Peak AC)
100X with Readout Coding
UL3111-1, EN61010-1,
IEC61010-2-031, CSA1010.1 CSA1010.2.031

7 to 30 pF Compensation Range
P5102
DC to 100 MHz
$1,000 \mathrm{~V}_{\text {Rms }}$ CAT II
Floatable up to $600 \mathrm{~V}_{\text {RMs }}$ CAT II or $300 \mathrm{~V}_{\text {RMS }}$ CAT III

10X
For THS700 Series
UL3111-1, EN61010-1, IEC61010-2-031, CSA1010.1, CSA1010.2.031

## P5120

DC to 200 MHz
$1,000 \mathrm{~V}_{\text {RMs }}$ CAT II
Floatable up to $600 \mathrm{~V}_{\text {RMS }}$ CAT II or $300 \mathrm{~V}_{\text {RMS }}$ CAT III

20X
15 to 25 pF Compensation Range
For TPS2000 Series
UL61010B-2-031, EN61010-2-031,
IEC61010-2-031, CSA61010.2.031
P6015A
High Voltage - 20 kV DC/40 kV Peak (100 ms Pulse Width)

High Bandwidth - 75 MHz
Silicone Dielectric
Optional 1,000X Readout Coding
Wide Compensation Range (7 to 49 pF)

Heavy Duty Versatile Ground Lead and Alligator Clip

## - Applications

Power Supply Design
Design Motor Drive
Electronic Ballast
Power Semiconductors
Switch Mode Control
UPS Systems
Power Converters

## Passive High Voltage Probes

- P5100 • P5102 • P5120 • P6015A


## P6015A High Voltage Probe

For heavy-duty, high-performance measurements of voltages over 2.5 kV , the P6015A is the industry standard. You can measure DC voltages up to $20 \mathrm{kV}_{\text {RMs }}$ and pulses up to 40 kV (peak, 100 ms duration). The 75 MHz bandwidth enables you to capture fast, high-voltage signals.
The P6015A uses an environmentally safe silicone compound for a dielectric and never needs refilling. Other features
include a 7 to 49 pF compensation range, a small compensation box that fits on adjacent amplifier inputs and a readout option for use with most Tektronix digital scopes. With the readout option, displayed voltage amplitude values will be the actual signal value rather than understated by a factor of 1,000.

Note: Using the readout version with other than Tektronix digital scopes may result in an erroneous readout display.


- P6015A.


## －Characteristics

－P5100／P5102／P5120／P6015A

| Probe | Nominal <br> Length | Attenuation | Bandwidth | Rise time <br> （typical） | Loading | Max． <br> Input V <br> DC or RMS | Max． <br> Float V | Comp． <br> Range <br> in pF | Readout |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

