

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 kV_{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 Length	Attenuation	Bandwidth	Rise time (typical)	Loading	Max. Input V DC or RMS	Max. Float V	Comp. Range in pF	Readout
P5100	10 ft.	100X	250 MHz	1.75 ns	10 M Ω / 2.75 pF	2.5 kV (DC + Pk AC) 1,000 V CAT III	N/A	7 to 30	Yes
P5102	2 m	10X	100 MHz	3.5 ns	5 M Ω / 11.2 pF	1,000 V _{RMS} CAT II	600 V _{RMS} CAT II	24 to 28	No
P5120	3 m	20X	200 MHz	2.2 ns	5 M Ω / 11.2 pF	1,000 V _{RMS} CAT II	600 V _{RMS} CAT II, 300 V _{RMS} CAT III	15 to 25	No
P6015A	10 ft.	1000X	75 MHz	4.0 ns	100 M Ω / 3 pF	20 kV	N/A	7 to 49	No
P6015A Opt. 1R	10 ft.	1000X	75 MHz	4.0 ns	100 M Ω / 3 pF	20 kV	N/A	7 to 49	Yes
P6015A Opt. 25	25 ft.	1000X	25 MHz	14 ns	100 M Ω / 4 pF	20 kV	N/A	7 to 49	No
P6015A Opt. 2R	25 ft.	1000X	25 MHz	14 ns	100 M Ω / 4 pF	20 kV	N/A	7 to 49	Yes