

TEKTRONIX

P6015A

The Tektronix P6015A is an industry-standard passive high-voltage oscilloscope probe, designed to safely measure heavy-duty voltages up to 20 kV DC/RMS and 40 kV peak pulses. Featuring a 1000:1 attenuation ratio, 75 MHz bandwidth, and an environmentally safe silicone dielectric, the P6015A is widely used in power supply design, motor drives, and electronic ballasts. It connects directly to 1 MΩ oscilloscope inputs and includes readout coding for automatic scaling on compatible Tektronix instruments.

SPECIFICATIONS

Physical

Operating Temperature	0 to +50 °C
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General Performance

Probe Type	Passive High-Voltage Probe
Attenuation Ratio	1000:1
Bandwidth (-3 dB)	75 MHz (with standard 3 m cable) / 25 MHz (with optional 7.6 m cable)
Rise Time (10% to 90%)	4.0 ns (with standard 3 m cable) / 14 ns (with optional 7.6 m cable)

Input Characteristics

Input Resistance (DC)	100 MΩ
Input Capacitance	~3 pF
Maximum Peak Pulse Voltage	40 kV peak (for pulses < 100 ms)
Compensation Range	7 pF to 49 pF

Output Characteristics

Connector Type	BNC (with readout pin)
Readout / Encoding Interface	Yes (1000X automatic scaling on compatible oscilloscopes)
Matching Oscilloscope Input Impedance	1 MΩ

Physical & Mechanical

Cable Length	3 m (10 ft) standard; 7.6 m (25 ft) optional
Dielectric Material	Environmentally safe silicone compound (Freon-free)

Accessories & Configurations

Included Accessories	Ground lead, hook tip, banana plug clip, carrying case, instruction manual
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Electrical Characteristics

Bandwidth (Option 1R, 25-ft cable)	25 MHz
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TECHNOLOGY

High-Voltage Passive Probe

APPLICATIONS

Power Supply Design, Motor Drives, Electronic Ballasts

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