

TEKTRONIX

P5100

The Tektronix P5100 is a high-voltage passive oscilloscope probe designed to provide safe and accurate measurements up to 2500 V peak. Featuring a 100X attenuation factor and 250 MHz bandwidth, it includes a TEKPROBE BNC interface for automatic scale factor readout on compatible Tektronix oscilloscopes.

SPECIFICATIONS

General

Interfaces	TEKPROBE BNC (with readout coding pin)
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Physical

Operating Temperature	0 °C to +50 °C °C
Weight	0.112 kg (probe only) kg

Electrical Performance

Attenuation Ratio	100X
Bandwidth (-3 dB)	250 MHz
Rise Time (10% - 90%)	< 1.4 ns
Input Resistance (at DC)	10 MΩ
Input Capacitance	2.75 pF (typical)
Compensation Range	7 pF to 30 pF
Maximum Input Voltage	1000 V RMS CAT II, 2500 V Peak CAT I
Maximum Safe Voltage (CAT I)	2500 V Peak
Maximum Safe Voltage (CAT II)	1000 V RMS
Readout Pin Support	Yes (100X scale factor detection)

Physical & Mechanical Characteristics

Cable Length	3.0 m (10 ft)
Connector Type	TEKPROBE BNC

Environmental Specifications

Operating Temperature Range	0 °C to +50 °C
Non-Operating Temperature Range	-40 °C to +75 °C
Operating Humidity	Up to 80% RH at or below +40 °C
Operating Altitude	Up to 4,400 m (15,000 ft)
Non-Operating Altitude	Up to 15,240 m (50,000 ft)

Safety and Regulatory Compliance

Safety Standard Certifications	UL3111-1, EN61010-1, EN61010-2-031, CSA1010.1, CSA1010.2.031
Measurement Category (CAT) Rating	CAT II 1000 V / CAT I 2500 V

Standard Included Accessories

Retractable Hook Tip	Included
Ground Lead with Alligator Clip	Included
Adjustment Tool	Included
Color Coding Bands Set	Included

Performance

Required Oscilloscope Input Resistance	1 MΩ
DC Attenuation Accuracy	±1.5%

Environmental

Pollution Degree	2
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TECHNOLOGY

Passive High Voltage

APPLICATIONS

High-voltage measurement, power electronics testing, motor drive debugging

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