

TEKTRONIX

P7225

The Tektronix P7225 is a 2.5 GHz active single-ended oscilloscope probe featuring a TekConnect interface. It provides high-bandwidth, low-loading measurements with 10X attenuation, 100 k Ω input resistance, and less than 0.8 pF input capacitance, making it ideal for high-speed digital and analog circuit design debugging.

SPECIFICATIONS

General

Interfaces	TekConnect
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Physical

Power Supply	Powered via TekConnect interface by host oscilloscope
Operating Temperature	0 °C to +40 °C °C
Weight	0.09 kg (probe only) kg

Key Electrical Specifications

Bandwidth	2.5 GHz
Rise Time (10% to 90%)	< 140 ps
Attenuation Ratio	10:1
DC Gain Accuracy	±3%
Coupling	DC

Input Characteristics

Input Resistance	100 k Ω
Input Capacitance	< 0.8 pF
Linear Dynamic Range	±4 V
Input Offset Range	±10 V
Maximum Non-Destructive Input Voltage	±30 V (DC + Peak AC)

Host Interface & Power

Output Impedance	50 Ω
Interface Type	TekConnect
Host Oscilloscope Compatibility	Tektronix oscilloscopes with TekConnect interface

Physical & Mechanical Properties

Cable Length	1.3 m
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Environmental Specifications

Non-Operating Temperature Range	-55 °C to +75 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 15,240 m (50,000 ft)

Performance

Propagation Delay	5.3 ns ± 0.1 ns
Probe Noise	< 8 nV/√Hz (at 10 MHz)
ESD Tolerance	> 8 kV (human body model)

Environmental

Operating Humidity	8% to 80% RH (at up to +32 °C), 5% to 45% RH (+32 °C to +40 °C)
Non-Operating Humidity	5% to 90% RH (at up to +30 °C), 5% to 45% RH (+30 °C to +60 °C)

Compliance & Standards

Safety Standards	EN 61010-1, UL61010B-1, CSA C22.2 No. 1010.1
EMC Compliance	EN 61326

TECHNOLOGY

Active Single-Ended Probe

APPLICATIONS

High-speed digital system design, component characterization, and signal integrity debugging

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.