

TEKTRONIX

TAP2500

The Tektronix TAP2500 is a 2.5 GHz active oscilloscope probe designed for high-speed signal acquisition with minimal device loading. Powered directly through the TekVPI interface, it provides outstanding electrical and physical performance, making it ideal for the design, validation, and debugging of high-speed digital systems.

SPECIFICATIONS

General

Interfaces	TekVPI
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Physical

Power Supply	Powered directly by host oscilloscope via TekVPI interface
Operating Temperature	0 °C to +50 °C °C

Electrical Performance Parameters

Bandwidth (Probe Only)	≥ 2.5 GHz
Rise Time (10% to 90%, Probe Only)	< 140 ps
Attenuation Ratio	10:1
DC Input Resistance	40 kΩ
Input Capacitance	< 0.8 pF
Input Dynamic Range	±4 V
Input Offset Range	±10 V
Maximum Non-Destructive Input Voltage	±30 V (DC + Peak AC)
Propagation Delay	5.3 ns (nominal)

Physical & Mechanical Characteristics

Cable Length	1.3 m
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Host Compatibility & Power

Host Interface Connection Type	TekVPI
Power Requirements	Powered directly by host oscilloscope via TekVPI interface

Environmental & Safety

Operating Temperature Range	0 °C to +50 °C
Non-Operating Temperature Range	-40 °C to +71 °C
Operating Altitude	Up to 3,000 m (9,843 ft)
Non-Operating Altitude	Up to 12,192 m (40,000 ft)
Safety Standard Certifications	UL61010-031, CAN/CSA-C22.2 No. 61010-031, IEC61010-031

Accessories & Ordering Information

Standard Warranty Period	1 Year
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Physical Characteristics

Probe Head Dimensions (W×H×D)	5.1 mm × 7.6 mm × 57.2 mm
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Electrical Characteristics

Output Termination	50 Ω
Input Coupling	DC

Performance

System Bandwidth	2.5 GHz (with ≥2.5 GHz TekVPI oscilloscopes)
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Compliance & Safety

Pollution Degree	2
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TECHNOLOGY

Active Oscilloscope Probe

APPLICATIONS

High-speed digital system design, validation, and debugging

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