

TEKTRONIX

TAP3500

The Tektronix TAP3500 is a 3.5 GHz single-ended active oscilloscope probe designed for use with Tektronix oscilloscopes featuring the TekVPI™ interface. It provides high-speed signal acquisition with low device-under-test loading, featuring an input capacitance of less than 0.8 pF and an input resistance of 40 kΩ.

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
Dimensions (W×H×D)	Probe head: 7.5 × 4.9 × 85 mm; Compensation box: 41 × 26 × 107 mm mm
Weight	0.135 kg (Probe head and cable: 44 g; Compensation box: 91 g) kg

Electrical Specifications

Bandwidth	3.5 GHz
Attenuation Ratio	10:1
Input Resistance (DC)	40 kΩ
Input Capacitance	< 0.8 pF
Rise Time (10% to 90%)	< 115 ps
Linear Dynamic Range	±4 V
DC Voltage Offset Range	±10 V
Maximum Non-Destructive Input Voltage	±15 V (DC + peak AC)
DC Gain Accuracy	±2%

Performance Characteristics

Propagation Delay	5.3 ns (typical)
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System Interface and Power

Host Oscilloscope Interface Type	TekVPI™
Automated Scale Factor Detection	Yes
Auto-Zero Capability	Yes

Physical and Mechanical

Probe Cable Length	1.3 m
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Environmental Specifications

Operating Temperature Range	0 °C to +50 °C
Non-Operating Temperature Range	-40 °C to +71 °C
Operating Humidity Range	5% to 95% RH at up to +30 °C; 5% to 75% RH above +30 °C up to +50 °C
Non-Operating Humidity Range	5% to 95% RH at up to +30 °C; 5% to 85% RH above +30 °C up to +75 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 15,240 m (50,000 ft)

Compliance and Safety

Safety Standards	UL61010-031, CAN/CSA C22.2 No. 61010-031, IEC61010-031
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Scope Compatibility

Supported Oscilloscope Families	Tektronix oscilloscopes with TekVPI™ interface
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Service and Warranty

Standard Warranty Period	1 year
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Electrical Characteristics

Input Coupling	DC
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Performance

Input-Referred Noise	< 2.2 mV RMS
Output Termination	50 Ω

Controls & Indicators

Controls	Menu button (opens probe menu on oscilloscope screen)
Status Indicator	Multi-color LED (Green, Amber, Red)

TECHNOLOGY

Active Probe

APPLICATIONS

High-speed digital system design, component design and characterization, educational research

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