

TEKTRONIX

P7350

The Tektronix P7350 is a high-bandwidth, low-loading 5.0 GHz active differential probe designed for use with high-performance oscilloscopes featuring the TekConnect interface. It is ideal for debugging and validating high-speed differential signals in communication, semiconductor, and computer bus architectures.

SPECIFICATIONS

General

Interfaces	TekConnect
Warranty	1 year
Recommended Calibration Interval	1 year

Physical

Power Supply	Powered directly by host oscilloscope through TekConnect interface
Operating Temperature	0 °C to +40 °C °C

Electrical Performance

Bandwidth	5.0 GHz
Rise Time (10% to 90%)	≤ 100 ps
Rise Time (20% to 80%)	< 70 ps (typical)
Attenuation Ratio	5:1 (5X)
DC Attenuation Accuracy	$\pm 2\%$
Differential Input Resistance	100 k Ω
Common-Mode Input Resistance	50 k Ω
Differential Input Capacitance	< 0.3 pF (typical 0.27 pF)

Voltage Limits & Dynamic Range

Differential Dynamic Range	± 1.25 V (2.5 V _{p-p})
Common-Mode Operating Voltage Range	± 6.25 V
Maximum Non-Destructive Input Voltage (DC + peak AC)	± 15 V
DC Offset Range	± 1.25 V

Common Mode Rejection Ratio (CMRR)

CMRR at DC	> 60 dB
CMRR at 1 MHz	> 55 dB (typical)
CMRR at 100 MHz	> 45 dB (typical)
CMRR at 500 MHz	> 38 dB (typical)
CMRR at 1 GHz	> 30 dB (typical)
CMRR at 5 GHz	> 15 dB (typical)

Host Interface & Connectivity

Output Impedance	50 Ω
Probe Interface Type	TekConnect
Supported Oscilloscope Families	TDS6000, TDS7000, CSA7000, TDS8000, CSA8000, DPO7000, DPO/DSA70000 series with TekConnect interface
Auto-Scaling Support	Yes, automatically communicates attenuation factor and scaling to host oscilloscope

Physical & Mechanical

Cable Length	1.3 m (51 in)
Connector Type	TekConnect

Environmental & Compliance

Non-Operating Temperature Range	-55 °C to +75 °C
Operating Humidity Range	0% to 90% RH (at or below +30 °C), 0% to 75% RH (above +30 °C to +40 °C)
Non-Operating Humidity Range	0% to 90% RH (at or below +30 °C), 0% to 75% RH (above +30 °C to +75 °C)
Operating Altitude	Up to 3,000 m (9,843 ft)
Non-Operating Altitude	Up to 15,240 m (50,000 ft)

Compliance

Safety Certifications	UL61010B-1, CAN/CSA-C22.2 No. 1010.1, EN 61010-1
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Performance

Input-Referred Noise	< 4 mV RMS
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TECHNOLOGY

Active Differential

APPLICATIONS

High-speed digital system design, differential signaling analysis, and semiconductor characterization

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