

TEKTRONIX

P7380A

The Tektronix P7380A is a high-bandwidth, Z-Active differential oscilloscope probe designed for high-frequency signal acquisition. Featuring an 8.0 GHz bandwidth and low loading characteristics, it provides excellent signal fidelity for debugging fast serial buses and high-speed digital designs.

SPECIFICATIONS

General

Interfaces	TekConnect
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Physical

Power Supply	Powered by host oscilloscope via TekConnect interface
Operating Temperature	0 to 40 °C °C
Weight	0.096 kg

Signal Acquisition & Bandwidth

Bandwidth	> 8.0 GHz
Rise Time (10% - 90%)	<= 55 ps
Rise Time (20% - 80%)	<= 35 ps
Attenuation Settings	5x and 25x (user selectable)
Propagation Delay	5.3 ns (nominal)

Input Electrical Characteristics

Differential Input Resistance	100 kΩ
Common Mode Input Resistance	50 kΩ
Differential Input Capacitance	< 0.27 pF (with P7380A Z-Active tips)
Differential Dynamic Range (5x)	1.0 Vp-p
Differential Dynamic Range (25x)	5.0 Vp-p
Common Mode Range	+5.0 V to -2.0 V
DC Offset Range	+5.0 V to -2.0 V
Maximum Non-Destructive Input Voltage	±15 V (DC + peak AC)

Signal Fidelity & Accuracy

DC Gain Accuracy	±2%
Common Mode Rejection Ratio at 1 MHz	> 60 dB
Common Mode Rejection Ratio at 1 GHz	> 35 dB
System Noise (Referred to Input, 5x)	< 3.0 mV RMS
System Noise (Referred to Input, 25x)	< 15.0 mV RMS

System Connectivity & Host Interface

Host Oscilloscope Interface Type	TekConnect
Output Impedance	50 Ω
Host Termination Requirement	50 Ω

Physical & Mechanical

Cable Length	1.3 m
Probe Tip Connection Styles Supported	Solder-in, Handheld Browser, Square Pin

Environmental & Safety

Non-Operating Temperature Range	-55 °C to +75 °C
Operating Humidity	Up to 90% RH (non-condensing)
Operating Altitude	Up to 3000 m (10000 feet)

Performance

Common Mode Rejection Ratio at 100 MHz	>38 dB
Common Mode Rejection Ratio at 4 GHz	>20 dB

Compatibility

Compatible Oscilloscopes	Tektronix oscilloscopes with TekConnect interface
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Compliance

Safety Standards	UL61010B-1, CAN/CSA-C22.2 No. 1010.1, EN 61010-1
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TECHNOLOGY

Z-Active Differential

APPLICATIONS

High-speed digital design, serial bus debugging, spectral analysis

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