

TEKTRONIX

P7380

The Tektronix P7380 is an 8.0 GHz high-bandwidth active differential probe designed for use with TekConnect oscilloscopes. Featuring the innovative Z-Active architecture, it offers exceptionally high AC impedance and low loading, making it ideal for debugging and validating high-speed differential signals such as SATA, PCI Express, HDMI, and DDR memory.

SPECIFICATIONS

General

Interfaces	TekConnect
------------	------------

Physical

Power Supply	Powered directly by the host oscilloscope via the TekConnect interface
--------------	--

Operating Temperature	0 to 40 °C °C
-----------------------	---------------

Electrical Performance & Signal Fidelity

Bandwidth	8.0 GHz (guaranteed)
Rise Time (10% to 90%)	< 55 ps (typical)
Rise Time (20% to 80%)	< 35 ps (typical)
Attenuation Ratio	5X or 25X (user-selectable)
Differential DC Input Resistance	100 kΩ
Common Mode DC Input Resistance	50 kΩ

Voltage Limits & Dynamic Range

Maximum Non-Destructive Input Voltage	±15 V (DC + peak AC)
---------------------------------------	----------------------

Connectivity & Interface Compatibility

Oscilloscope Interface Type	TekConnect
-----------------------------	------------

Mechanical Characteristics

Cable Length	1.2 m (4.0 ft)
--------------	----------------

Environmental Specifications

Operating Temperature Range	0 °C to +40 °C
-----------------------------	----------------

Performance

Common Mode Input Capacitance	< 0.5 pF (at 2 GHz)
-------------------------------	---------------------

TECHNOLOGY

Z-Active Differential Probe

APPLICATIONS

High-speed serial bus design, differential signal measurements, validation of SATA, PCI Express, DDR, and HDMI

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