

TEKTRONIX

P6245

The Tektronix P6245 is an active FET oscilloscope probe designed for high-speed signal acquisition with minimal device-under-test (DUT) loading. Delivering a bandwidth of 1.5 GHz and a fast rise time of less than 250 ps, it offers an ideal solution for testing modern digital system designs, including CMOS, BiCMOS, ECL, GaAs, and TTL logic. Equipped with the TEKPROBE BNC interface, the probe connects directly to compatible Tektronix oscilloscopes, drawing power directly from the host instrument without requiring external power supplies or cables.

SPECIFICATIONS

General

Interfaces	TEKPROBE BNC
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Physical

Power Supply	Powered directly by host instrument via TEKPROBE BNC
Operating Temperature	0 °C to +50 °C °C

Electrical Performance

Bandwidth	≥1.5 GHz (probe only)
Rise Time	<250 ps
Attenuation Ratio	10X
DC Input Resistance	1 MΩ
Input Capacitance	≤1 pF
Linear Dynamic Range	±8 V
DC Offset Range	±10 V
Maximum Non-Destructive Input Voltage	±15 V (DC + peak AC)
Propagation Delay	5.3 ns
Logic Compatibility	CMOS, BiCMOS, ECL, GaAs, TTL

Interface & Compatibility

Compatible Oscilloscope Series	TDS500, TDS600, TDS700, TDS3000, TDS5000, TDS6000, TDS7000, CSA7000
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Physical & Mechanical Properties

Cable Length	1.3 m
SMD Pitch Compatibility	Down to 0.5 mm

TECHNOLOGY

Active FET

APPLICATIONS

High-speed digital system design, SMD testing, and logic measurements (CMOS, BiCMOS, ECL, GaAs, TTL)

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