

TEKTRONIX

TDS684B

The Tektronix TDS684B is a 1 GHz, 4-channel digital storage oscilloscope capable of a maximum real-time sample rate of 5 GS/s. Designed for demanding high-speed applications, it offers an 8-bit vertical resolution that can be extended beyond 11 bits with averaging, alongside advanced features such as 1 ns peak detect, waveform math, channel deskew, and automated pass/fail template testing. The instrument comes equipped with a color VGA display, a DOS-compatible floppy drive, and a standard suite of connectivity ports including GPIB and RS-232.

SPECIFICATIONS

Physical

Power Supply	90 to 250 VAC RMS, 45 to 440 Hz; 300 W max
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Vertical System

Bandwidth	1 GHz
Number of Channels	4
Vertical Resolution	8 bits (>11 bits with averaging)
Input Sensitivity Range	1 mV/div to 10 V/div
Vertical Accuracy	1.5%
Analog Bandwidth Limits	20 MHz, 250 MHz
Single-Shot Bandwidth	1 GHz

Acquisition System

Maximum Real-Time Sample Rate	5 GS/s
Standard Record Length	15,000 Points

Physical Characteristics

Removable Storage	3.5 in. DOS Format Floppy Drive
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Inputs

Input Impedance	1 M Ω $\pm$ 1% 10 pF $\pm$ 2 pF, or 50 Ω $\pm$ 1%
Input Coupling	AC, DC, GND
Maximum Input Voltage (1 M Ω)	$\pm$ 400 V (DC + peak AC)
Maximum Input Voltage (50 Ω)	5 V RMS, with peaks $\leq$ $\pm$ 30 V

Horizontal

Timebase Accuracy	$\pm$ 25 ppm over any interval $\geq$ 1 ms
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Horizontal System

Timebase Range	200 ps/div to 10 s/div
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Power

Maximum Power Consumption	300 W
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TECHNOLOGY

Digital Storage

APPLICATIONS

Test & Measurement

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