

TEKTRONIX

TDS3052

The Tektronix TDS3052 is a 500 MHz, 2-channel digital phosphor oscilloscope (DPO) from the TDS3000 series. It features a maximum real-time sample rate of 5 GS/s, 9-bit vertical resolution, and a built-in floppy disk drive for data storage and documentation. A Centronics port is included as standard, while RS-232, GPIB, LAN, and VGA connectivity are supported via optional modules.

SPECIFICATIONS

General

Interfaces	Centronics (standard); RS-232, GPIB, LAN, VGA (via optional modules)
Display	Full VGA Color LCD

Physical

Power Supply	100-240 V RMS $\pm 10\%$ (47-63 Hz), 115 V RMS $\pm 10\%$ (360-440 Hz); 75 W maximum
Operating Temperature	+5 to +50 °C
Dimensions (W×H×D)	375 × 176 × 149 mm
Weight	3.2 kg

Vertical System

Number of Channels	2
Analog Bandwidth	500 MHz
Vertical Resolution	9-bit
Input Coupling	AC, DC, GND
Input Impedance	1 M Ω , 50 Ω
Vertical Sensitivity (1 M Ω)	1 mV/div to 10 V/div
Vertical Sensitivity (50 Ω)	1 mV/div to 1 V/div
Maximum Input Voltage (50 Ω)	5 V RMS (with peaks $\leq \pm 30$ V)
Maximum Input Voltage (1 M Ω)	150 V RMS CAT I (300 V CAT II with standard 10X probe)
Bandwidth Limits	20 MHz, 150 MHz

Horizontal System

Maximum Sample Rate (Real-Time)	5 GS/s
Record Length	10,000 points
Time Base Range	1 ns/div to 10 s/div
Time Base Accuracy	± 20 ppm

Measurement and Math

Application Modules Supported	Telecommunications Mask Testing (TMT), Fast Fourier Transform (FFT), Extended Video
-------------------------------	---

Display System

Display Type	Color LCD
Display Resolution	640 x 480 pixels

Physical Characteristics

Removable Storage	Built-in Floppy Disk Drive
-------------------	----------------------------

Acquisition System

Waveform Capture Rate	Up to 3,600 waveforms/s
Acquisition Modes	Sample, Peak Detect, Envelope, Average
Waveform Interpolation	Sin(x)/x

Trigger System

Standard Trigger Types	Edge, Video
Trigger Coupling	DC, AC, HF Reject, LF Reject, Noise Reject

Power

Line Voltage Range	100 to 240 V AC RMS (±10%)
Line Frequency Range	45 to 66 Hz (100-240 V AC); 360 to 440 Hz (100-132 V AC)
Power Consumption	75 W maximum

Measurements

Standard Math Functions	Add, Subtract, Multiply, Divide
Cursors	Amplitude, Time

Environmental

Non-operating Temperature	-40 °C to +71 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-operating Altitude	Up to 15,000 m (50,000 ft)

TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

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