

TEKTRONIX

SD26

The Tektronix SD26 is a dual-channel, 20 GHz equivalent bandwidth sampling head designed for high-performance signal acquisition in Tektronix 11800 Series and CSA803 Series mainframes. It offers the same acquisition performance as the SD24 but without the TDR step generators, making it ideal for high-speed electrical sampling and measurement applications.

SPECIFICATIONS

General

Interfaces	Proprietary internal mainframe interface connector
Display	None (utilizes mainframe display)

Physical

Power Supply	Powered directly from mainframe
Operating Temperature	0 °C to +50 °C °C
Dimensions (W×H×D)	25.4 mm × 73.6 mm × 91.4 mm mm
Weight	0.155 kg kg

Vertical System

Number of Channels	2
Equivalent Bandwidth	20 GHz (typical)
Rise Time	17.5 ps
Maximum Sample Repetition Rate	200 kHz
Displayed Noise (Unity Dot Response, Maximum)	1.2 mV
Displayed Noise (Unity Dot Response, Typical)	750 µV
Displayed Noise (With Smoothing, Maximum)	550 µV
Displayed Noise (With Smoothing, Typical)	350 µV
Dot Transient Response Accuracy	±5% for signals up to 0.5 Vp-p (after calibration at operating temperature)
Dot Transient Response Range	Adjustable to unity for signals up to 1.0 Vp-p
Aberrations (10 ns to 20 ps before step)	±3% or less (typical)
Aberrations (<300 ps after step)	+10%, -5% or less (typical)
Aberrations (300 ps to 5 ns after step)	±3% or less (typical)
Aberrations (5 ns to 100 ns)	±1% or less (typical)
Aberrations (elsewhere)	±0.5% or less (typical)

Input Characteristics

Input Impedance	50 Ohm ±0.5 Ohm
Maximum Safe Input Voltage	±3 V
Input Connector Type	3.5 mm Female (SMA compatible)

Mainframe Compatibility

Supported Mainframes	Tektronix 11801, 11802, CSA803 series
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Environmental

Storage Temperature	-40 °C to +75 °C
Operating Altitude	4,570 m (15,000 ft)
Non-Operating Altitude	15,240 m (50,000 ft)

Performance

Channel-to-Channel Isolation	≥ 34 dB at 20 GHz
Nominal Delay	1.9 ns
Loop-Through Reflection Coefficient (within 150 ps of step)	≤5%
Loop-Through Reflection Coefficient (elsewhere)	≤2%
Loop-Through Insertion Loss (DC to 10 GHz)	≤1.0 dB
Loop-Through Insertion Loss (10 GHz to 20 GHz)	≤2.0 dB
Offset Range	±1.0 V

TECHNOLOGY

Equivalent-Time Electrical Sampling

APPLICATIONS

High-Speed Electrical Signal 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.