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WAVECREST PRODUCTS **Products** **DTS-2077**



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The stringent timing specifications of today's data communications devices require a signal integrity analysis solution that outperforms general test instruments. The *WAVECREST* DTS-2077 is a high-performance Timing Analyzer used for the debug, characterization and production test of high-performance, high frequency devices and circuits.

Timing uncertainties such as jitter, propagation delay, frequency modulation and crosstalk can easily be analyzed and tested with the DTS-2077. This capability can be used on either data signals or clock signals.

Specifications: **Timing Characteristics:**

Frequency Range	0.4Hz to 1.3GHz
Maximum Data Rate	2.5Gbps
Minimum Pulse Width	380ps
Jitter Noise Floor	< 6ps rms (3ps rms typical at cal frequency) ⁽¹⁾
Jitter Measurement Accuracy	< 2ps ⁽²⁾
Hardware Resolution	680fs
Time Measurement Range	±2.5s
Frequency Measurement Accuracy	1PPM
Time Base Accuracy	1PPM
Time Base Stability (Short Term Aging)	5x10-11

Voltage Performance:

Input Range	±1.1V(50 Ohm load)
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VREF Accuracy	$\pm(1.5 \text{ mV} + 0.75\% \text{ of setting})$
VREF Resolution	150 μ V

⁽¹⁾ Jitter Noise Floor is the minimum Jitter measurement that can be made. This measurement is an accumulation of several jitter frequency components and their effect on the measurement in question. The Jitter Noise Floor measured in the Frequency domain is less than 1ps.

⁽²⁾ Jitter Measurement Accuracy is a function of the hardware's measurement repeatability.

Specifications subject to change without notice.

Features: **Automatic Arming** - Used for serial data streams and clock signals that repeat indefinitely. This feature is critical in enabling clock-less data signal analysis.

Internal Sampling Oscilloscope - Used for identifying signal characteristics that are present at the channel input. The oscilloscope has an effective sampling rate of 100GHz.

User Programmable Subroutine Memory - Used for developing production and characterization scripts to enhance throughput and measurement time.

Built-In Internal Calibration - Used for self-calibration of internal hardware. External reference ports accessible on back panel for accuracy verification.

Built-In External Calibration - Used for timing and voltage deskew of cables, probes and other interconnect hardware.

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