

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8133A

The Agilent (Keysight) 8133A is a high-performance 3 GHz pulse generator designed for characterizing high-speed digital and optical communications components. It delivers precise programmable pulses with periods from 30 ns down to 333 ps, featuring exceptionally fast transition times of under 100 ps (typically < 60 ps) and extremely low jitter (1 ps typical) to assure excellent signal integrity. It includes advanced capabilities such as delay modulation for jitter emulation, variable cross-over points for eye deformation, and built-in PRBS generation, making it well-suited for LVDS applications and rigorous timing verification.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
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Timing Characteristics

Frequency Range	33 MHz to 3 GHz
Period Range	333 ps - 30 ns
Rise/Fall Time (20% to 80%)	< 100 ps (specified); < 60 ps (typical)

Output Characteristics

Number of Channels	1 (standard)
Amplitude Range	300 mV - 3 V
Output Impedance	50 Ω

TECHNOLOGY

Pulse / Data Generator

APPLICATIONS

High-speed digital logic testing, LVDS characterization, optical communications, jitter tolerance testing

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