

KEYSIGHT TECHNOLOGIES (AGILENT HP)

81101A

The Keysight (Agilent) 81101A is a 50 MHz single-channel pulse generator designed as the economical entry-level model of the 81100 family. It features fully variable timing parameters (including period, delay, width, and rise/fall transitions) and utilizes a PLL oscillator for exceptional repetition rate stability. Well-suited for general-purpose digital testing, it supports selectable 50 or 1000 source resistance, delivering output amplitudes up to 10 V or 20 V respectively into a 50 load.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488.2)
Display	Backlit LCD
Warm-up Time	30 minutes
Recalibration Period	1 year

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	212 mm × 89 mm × 345 mm mm

Timing Characteristics

Frequency Range	1 mHz to 50 MHz
Period Range	20.0 ns to 999 s
Period Resolution	3 digits (min 100 ps)
Delay Range	0.00 ns to 999 s
Delay Resolution	3 digits (min 100 ps)
Pulse Width Range	10.0 ns to 999 s
Pulse Width Resolution	3 digits (min 100 ps)
Double Pulse Delay	20.0 ns to 999 s

Pulse Output Performance

Number of Channels	1
Source Impedance	50 Ω or 1 kΩ (selectable)
Amplitude (50 Ω source into 50 Ω load)	100 mV to 10.0 V
High Level Range (50 Ω source into 50 Ω load)	-9.90 V to +10.0 V
Low Level Range (50 Ω source into 50 Ω load)	-10.0 V to +9.90 V
Amplitude Resolution	3 digits (min 10 mV)
Transition Time Range (Rise/Fall)	5.00 ns to 200 ms
Output Connector Type	BNC, single-ended

Operating Modes

Operating Modes	Continuous, Triggered, Gated, Burst
Double Pulse Mode	Available
External Width (Pulse Recovery) Mode	Available

Triggering and Synchronization

External Input Maximum Frequency	50 MHz
External Input Impedance	50 Ω or 10 kΩ (selectable)
External Input Threshold Range	-10 V to +10 V

TECHNOLOGY

PLL Synthesized Pulse Generation

APPLICATIONS

Digital system testing, semiconductor characterization, clock generation

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