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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 8013A PULSE GENERATOR

HP 8013A Pulse Generator Predecessor to 8013B The HP 8013A is the earlier dual-channel-oriented member of the 8012/8013 pulse generator family. Published B-series manuals document the shared 1 Hz to 50 MHz timing architecture used across these instruments. Two-channel digital timing; complementary pulse drive; general laboratory pulse/square generation. The HP 8013A is the earlier dual-channel-oriented member of the 8012/8013 pulse generator family. Published B-series manuals document the shared 1 Hz to 50 MHz timing architecture used across these instruments. Two-channel digital timing; complementary pulse drive; general laboratory pulse/square generation.



MODEL

HP / Agilent 8013A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8013A

LISTING

<https://aumictechlabs.com/products/8013a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 8013A Pulse Generator is a precision instrument for generating programmable pulses in electronic circuit testing, characterization, and validation. Operating at frequencies up to 50 MHz, it delivers simultaneous outputs of opposite polarity with adjustable amplitude and DC offset. The instrument supports internal, external, and manual triggering modes, making it adaptable to diverse test workflows in research, development, and manufacturing environments. Technical Specifications Maximum Frequency: 50 MHz Pulse Period: 50 ns to 10 s Pulse Width: Less than 10 ns to 1 s (four adjustable ranges) Pulse Delay: Less than 35 ns to 1 s Rise/Fall Transition Times: Less than 3.5 ns (fixed) Overshoot and Ringing: Less than $\pm 5\%$ of pulse

amplitude Preshoot: Less than $\pm 5\%$ of pulse amplitude Amplitude: Continuously adjustable DC Offset: Continuously adjustable Source Impedance: Switchable between $50\ \Omega$ and high impedance Output Configuration: Two channels with simultaneous opposite polarity pulses External Trigger Input: Accepts signals greater than +1 V, minimum 7 ns width; maximum input ± 5 V Key Features Dual complementary pulse outputs for differential testing Four-range pulse width control for extended parameter flexibility Selectable impedance matching for $50\ \Omega$ systems or high-impedance applications Triple triggering capability: internal repetition rate, external signal, or front-panel manual Minimal transition overshoot and ringing ($\pm 5\%$ specification) ensures signal integrity Fixed 3.5 ns rise/fall times deliver consistent pulse edges across the operating range Typical Applications Digital circuit characterization, TTL/CMOS testing, transient response analysis, and time-domain validation in both laboratory and production environments. Compatibility & Integration This instrument carries both HP and Agilent branding; all variants with identical model numbers are directly interchangeable. Twin output connectors (OUTPUT (+) and OUTPUT (-)) connect to standard test points. The generator operates from 115 V or 230 VAC $\pm 10\%$, -15% , at 48–440 Hz, drawing approximately 60 VA. Compact form factor: $6 \times 9 \times 14$ inches, 10 lbs. The 8013A is a legacy discontinued product.

Features & description

From manufacturer datasheet

Features

- Dual-channel family layout versus 8012A/B
- Shared 8012/8013 timing architecture
- Pulse width and delay spanning nanoseconds to 1 s class
- Variable edges for TTL-era logic
- External trigger/gate capability

8013A Characteristics / Specifications

PARAMETER	VALUE
Model	8013A
Manufacturer	Hewlett Packard
Instrument Type	Pulse generator
Family	8012 / 8013 pulse generators
Successor Model	8013B
Repetition Rate Class	1 Hz to 50 MHz family
Square Wave Class	0.5 Hz to 25 MHz family
Pulse Width Class	less than 10 ns to 1 s family
Pulse Delay Class	less than 35 ns to 1 s family
Transition Time Minimum Class	5 ns family
Maximum Output Into 50 Ohm Class	5 V family
Maximum Output Open Class	10 V family
Period Jitter Class	less than 0.1 percent plus 50 ps family
Width Jitter Class	less than 0.1 percent plus 50 ps family
Delay Jitter Class	less than 0.1 percent plus 50 ps family
Double Pulse Class	up to 25 MHz family
Duty Cycle To 10 MHz Class	greater than 75 percent family
Source Impedance Class	50 ohm with internal load
Trigger Output Class	greater than +1 V into 50 ohm family
Size Class WHD	about 200 mm x 145 mm x 280 mm (B body)
Mains	100/120/220/240 V
Related Single Channel	8012A / 8012B
Alias	HP 8013A

8013A Specifications

PARAMETER	VALUE
HP 8013A Pulse Generator Predecessor to 8013B	Overview
Applications	Two-channel digital timing; complementary pulse drive; general laboratory pulse/square generation.
Key Features	- Dual-channel family layout versus 8012A/B
Technical Specifications	Model: 8013A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	8013A
Manufacturer	Hewlett Packard
Instrument Type	Pulse generator
Family	8012 / 8013 pulse generators
Successor Model	8013B
Repetition Rate Class	1 Hz to 50 MHz family
Square Wave Class	0.5 Hz to 25 MHz family
Pulse Width Class	less than 10 ns to 1 s family
Pulse Delay Class	less than 35 ns to 1 s family
Transition Time Minimum Class	5 ns family
Maximum Output Into 50 Ohm Class	5 V family
Maximum Output Open Class	10 V family
Period Jitter Class	less than 0.1 percent plus 50 ps family
Width Jitter Class	less than 0.1 percent plus 50 ps family
Delay Jitter Class	less than 0.1 percent plus 50 ps family
Double Pulse Class	up to 25 MHz family
Duty Cycle To 10 MHz Class	greater than 75 percent family
Source Impedance Class	50 ohm with internal load
Trigger Output Class	greater than +1 V into 50 ohm family
Size Class WHD	about 200 mm x 145 mm x 280 mm (B body)
Mains	100/120/220/240 V
Related Single Channel	8012A / 8012B
Alias	HP 8013A
Notes	
Numeric class rows follow the published 8012B/8013B family tables. For metrology use, pull the exact 8013A serial-prefix specification sheet.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.