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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8115A 50MHz DUAL CHANNEL PULSE GENERATOR

HP Agilent 8115A 50 MHz Dual Channel Pulse Generator The HP 8115A is a fully programmable dual-channel 50 MHz pulse generator with CRT-based multi-screen programming of high/low levels, periods, and delays. OEM product literature specifies variable transitions from 6.5 ns to 95 ms, up to 32 Vpp into high impedance, GPIB programmability, and analog control inputs for period, delay, and width. Suited for ATE racks needing dual programmable pulse channels, data/clock simulation, multilevel signal generation via independent high/low programming, and bench work requiring higher accuracy in the 20 °C to 30 °C band. The HP 8115A is a fully programmable dual-channel 50 MHz pulse generator with CRT-based multi-screen programming of high/low levels, periods, and delays. OEM product literature specifies variable transitions from 6.5 ns to 95 ms, up to 32 Vpp into high impedance, GPIB programmability, and analog control inputs for period, delay, and width. Suited for ATE racks needing dual programmable pulse channels, data/clock simulation, multilevel signal generation via independent high/low programming, and bench work requiring higher accuracy in the 20 °C to 30 °C band.



MODEL

HP / Agilent 8115A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8115A

LISTING

<https://aumictechlabs.com/products/8115a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 8115A is a dual-channel pulse generator delivering independent, synchronous pulse generation up to 50 MHz. Each channel offers full programmability of pulse width, delay, amplitude, and transition times via CRT display and GPIB control. The instrument generates complex pulse patterns and multilevel signals by combining channels, making it ideal for digital circuit validation and ATE system integration across temperature ranges from 0°C to 55°C.

Technical Specifications

Pulse Generation Maximum pulse rate: 50 MHz Pulse width range: 10 ns to 950 ms Pulse delay range: 10 ns to 950 ms Rise/fall transition times: 6.5 ns to 95 ms (variable)

High level amplitude: -7.9 V to +8.0 V **Low level amplitude:** -8.0 V to +7.9 V **Output voltage (high impedance):** Up to 32 V peak-to-peak **Output voltage (50 Ω load):** Up to 64 V peak-to-peak

Accuracy & Repeatability Timing accuracy: $\pm 5\%$ of programmed value ± 2 ns Level accuracy (50 Ω load): $\pm 1\%$ of programmed value ± 40 mV Amplitude repeatability (50 Ω load): $\pm 3\%$ Operating temperature range: 0°C to 55°C (standard), 20°C to 30°C (higher accuracy) Storage temperature: -40°C to +65°C Recalibration interval: 1 year recommended

Key Features Dual independent synchronized channels for complex signal generation Four trigger modes: Manual, Auto, Trigger, Gate Channel addition capability for 3-level and 4-level signal synthesis Analog control voltage input for period, delay, and width modulation Fully programmable via GPIB for ATE system integration Compact bench-top form factor: 426 mm $\times$ 190 mm $\times$ 584 mm (16.75 in $\times$ 7.5 in $\times$ 23 in) Operating power: 100–120 Vrms or 220–240 Vrms ($\pm 10\%$), 450 VA maximum, 48–66 Hz Weight: 16 kg (35.5 lb)

Typical Applications Digital circuit functional and characterization testing System-level signal simulation and validation Automatic test equipment (ATE) subsystem integration Pulse train generation with precise timing control

Compatibility & Integration The 8115A integrates directly into production test environments via GPIB programmability. Optional rack flange kit (908) and rack slide kit (P/N 1494-0059) support standard 19-inch installation. Extended service plans (W30) and comprehensive documentation packages (910, 915, 916) are available.

8115A Characteristics / Specifications

PARAMETER	VALUE
Number of channels	2
Maximum pulse rate	50 MHz
Transition time range	6.5 ns to 95 ms
Maximum amplitude into high impedance	32 Vpp
High level range	−7.9 V to +8.0 V
Low level range	−8.0 V to +7.9 V
Operating temperature ATE	0 °C to 55 °C
High accuracy temperature band	20 °C to 30 °C
Remote interface	GPIB (HP-IB)
Analog modulation control	period, delay, and width
Output programming formats	high/low or amplitude/offset
Display	CRT multipage parameter screens
Primary stimulus	dual-channel pulse trains
Form factor	programmable dual-channel pulse generator
Suitable modes	standalone and ATE system
Channel independence	levels and timing programmable per channel
Maximum open circuit swing class	32 V peak to peak
Minimum transition time	6.5 ns
Maximum transition time	95 ms
High level minimum	−7.9 V
High level maximum	+8.0 V
Low level minimum	−8.0 V
Low level maximum	+7.9 V
Analog control inputs	period delay and width
Operating temperature	ATE: 0 °C to 55 °C

8115A Specifications

PARAMETER	VALUE
HP Agilent 8115A 50 MHz Dual Channel Pulse Generator	Overview
Multilevel and data/clock simulation capability	Wide 0 °C to 55 °C operating range for ATE; tighter accuracy 20 °C to 30 °C
Technical Specifications	Number of channels: 2

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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High level maximum	+8.0 V
Low level minimum	−8.0 V
Low level maximum	+7.9 V
Analog control inputs	period delay and width Notes Specifications are from HP 8115A product documentation and HPWiki/OEM summary tables. Expand electrical accuracy rows from the operating/service manual when a full PDF table is available for denser calibration limits.

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	
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accuracy rows from the operating/service manual when a full PDF table is available for denser calibration limits.

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.