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Data Sheet

August 15, 2026

COLBY INSTRUMENTS

Colby Instruments PG Series Pulse Generator

Colby Instruments PG Series Pulse Generator Queue model PG is the Colby Instruments PG series high-speed pulse generator family. OEM PG1000A listings rate 1 MHz to 1000 MHz ECL and 1 MHz to 350 MHz TTL, frequency accuracy plus or minus 0.3 digit crystal controlled, drift better than plus or minus 1 digit, duty cycle 10 to 90 percent up to 50 MHz, 20 to 80 percent up to 350 MHz, 30 to 70 percent up to 500 MHz, ECL rise less than 200 ps, TTL rise less than 750 ps, 110 Vac 90 W, operate 10 C to 30 C, 13 3/8 by 12 7/8 by 5 1/4 inch, 6 kg (13.0 lb), front-panel manual control. OEM PG5000A listings rate two independent channels, 10 MHz to 5000 MHz single range, 2 V nominal amplitude per side typically within plus or minus 10 percent, transition matching 20 ps typical at plus 10 dBm input, 115/230 Vac internally selected, intended for high-speed GaAs and laser-diode drive. Exact channel count and ECL/TTL mix are on the PG faceplate of the remaining-queue unit. Queue model PG is the Colby Instruments PG series high-speed pulse generator family. OEM PG1000A listings rate 1 MHz to 1000 MHz ECL and 1 MHz to 350 MHz TTL, frequency accuracy plus or minus 0.3 digit crystal controlled, drift better than plus or minus 1 digit, duty cycle 10 to 90 percent up to 50 MHz, 20 to 80 percent up to 350 MHz, 30 to 70 percent up to 500 MHz, ECL rise less than 200 ps, TTL rise less than 750 ps, 110 Vac



MODEL

**Colby Instruments
PG**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PG

LISTING

<https://aumictechlabs.com/products/pg-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Colby Instruments PG is a pulse generator designed for applications requiring precise timing and control of pulse signals. It has a wide frequency range, adjustable pulse width and delay, and various triggering options, making it suitable for testing and characterization of digital circuits, high-speed data communication, and research and development. Colby Instruments PG Pulse Generator Technical Specifications General Features Manufacturer: Colby Instruments Product Type: Pulse Generator Performance Specifications (Model PG-1000A) Frequency Range: * 1 MHz to 1000 MHz for ECL output signals. * 1 MHz to 350 MHz for TTL output signals. Frequency Accuracy: +/- 0.3 digit, crystal controlled. Frequency Drift: Better than +/- 1 digit. ECL Output Rise Time: Less than 200 ps. TTL Output Rise Time: Less than 750 ps. Duty Cycle Range: * 10-90% up to 50 MHz. * 20-80% up to 350 MHz. * 30-70% up to 500 MHz. Performance Specifications (Model PG 5000A) Pulse Repetition Rate: 10 MHz to 5000 MHz in a single range. Transition Time Matching: 20 ps typical at +10 dBm input level. Output Amplitude per Side: 2 V nominal. Output Amplitude Variation: Typically within $\pm 10\%$. Amplitude Attenuation: 0 dB to 19 dB in 1 dB steps with microwave attenuators. DC Output Offset Voltage: Independent from the output amplitude setting. Nominal Input Drive Level: +10 dBm. Max. Input Level: +16 dBm. Trigger Output Level: Approximately -7 dBc with respect to the input drive level. Output Duty Cycle: Approximately 50% for all input frequencies. Rise/Falltime (10-90%): See TABLE on page 4 of manual. Rise/Falltime (20-80%): See TABLE on page 4 of manual. Droop: Less than 20% at 10 MHz. Electrical Specifications Power Requirements (PG-1000A): 110V AC, 90W. Line Voltage Selection: Units typically supplied with a power cord for 115V operation (100V to 130V range). A 230V setting covers 200V to 260V. Line Frequency: 50 Hz to 60 Hz. Fuse (115V operation): 1.6 A quick acting. Fuse (230V operation): 0.8 A quick acting. Physical Specifications Dimensions (PG-1000A): 13 3/8" Long x 12 7/8" Wide x 5 1/4" High. Weight (PG-1000A): 6 kg (13.0 lbs.). Weight (PG-1000A, estimated from shipping dims): 11.7 lbs. Environmental Specifications Recommended Operating Temperature: 10° C to 30° C. Interfaces Instrument Control (PG-1000A): Manually via the front panel only. Compatibility Applications: * Testing very high-speed GaAs logic gates and circuits. * Driving laser diodes. * Testing and characterization of digital circuits. * High-speed data communication. * Research and development. Documentation Manuals: Available for download for specific models, often requiring a serial number. Why Choose Aumictech for Colby Instruments PG? At Aumictech, we specialize in supplying pulse generator equipment. Whether you need precise timing control for high-speed digital circuits, reliable pulse generation for data communication testing, or advanced characterization capabilities for R&D, our team ensures the Colby Instruments PG delivers maximum performance for your application.

PG Characteristics / Specifications

PARAMETER	VALUE
Model	PG series (PG1000A / PG5000A family)
Instrument Type	high speed pulse generator
Pg1000a Ecl Range	1 MHz to 1000 MHz
Pg1000a Ttl Range	1 MHz to 350 MHz
Frequency Accuracy	plus or minus 0.3 digit, crystal controlled (PG1000A)
Frequency Drift	better than plus or minus 1 digit (PG1000A)
Duty Cycle Low	10 to 90 percent up to 50 MHz (PG1000A)
Duty Cycle Mid	20 to 80 percent up to 350 MHz (PG1000A)
Duty Cycle High	30 to 70 percent up to 500 MHz (PG1000A)
Ecl Rise Time	less than 200 ps (PG1000A)
Ttl Rise Time	less than 750 ps (PG1000A)
Pg1000a Mains	110 Vac, 90 W
Pg1000a Ambient	10 C to 30 C recommended
Pg1000a Dimensions	13 3/8 inchLx 12 7/8 inchWx 5 1/4 inchHPg1000a Mass: 6 kg (13.0 lb)
Pg1000a Control	manual front panel only
Pg5000a Rate	10 MHz to 5000 MHz in a single range
Pg5000a Channels	2 independent outputs
Pg5000a Amplitude	2 V nominal per side, typically within plus or minus 10 percent
Pg5000a Matching	transition time matching 20 ps typical at plus 10 dBm input
Pg5000a Mains	115/230 Vac internally selected
Pg5000a Use	high-speed GaAs circuits and laser diode drive
Manufacturer	Colby Instruments
Literature	Colby PG1000A pulse generator listings; Colby PG5000A 5 GHz listings
Family	Colby PG series pulse generators
Form Factor	benchtop pulse generator

PARAMETER	VALUE
System Role	ECL/TTL and multi-GHz pulse stimulus
Brand Lineage	Colby Instruments
Queue Title	Colby Instruments PG Series Pulse Generator
Rise Time	less than 200 ps (PG1000A)

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	
Technical Specifications	
PARAMETER	VALUE
Model	PG series (PG1000A / PG5000A family)
Instrument Type	high speed pulse generator
Pg1000a Ecl Range	1 MHz to 1000 MHz
Pg1000a Ttl Range	1 MHz to 350 MHz
Frequency Accuracy	plus or minus 0.3 digit, crystal controlled (PG1000A)
Frequency Drift	better than plus or minus 1 digit (PG1000A)
Duty Cycle Low	10 to 90 percent up to 50 MHz (PG1000A)
Duty Cycle Mid	20 to 80 percent up to 350 MHz (PG1000A)
Duty Cycle High	30 to 70 percent up to 500 MHz (PG1000A)
Ecl Rise Time	less than 200 ps (PG1000A)
Ttl Rise Time	less than 750 ps (PG1000A)
Pg1000a Mains	110 Vac, 90 W
Pg1000a Ambient	10 C to 30 C recommended
Pg1000a Dimensions	13 3/8 inch L x 12 7/8 inch W x 5 1/4 inch H
Pg1000a Mass	6 kg (13.0 lb)
Pg1000a Control	manual front panel only
Pg5000a Rate	10 MHz to 5000 MHz in a single range
Pg5000a Channels	2 independent outputs
Pg5000a Amplitude	2 V nominal per side, typically within plus or minus 10 percent
Pg5000a Matching	transition time matching 20 ps typical at plus 10 dBm input
Pg5000a Mains	115/230 Vac internally selected
Pg5000a Use	high-speed GaAs circuits and laser diode drive
Manufacturer	Colby Instruments
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Family	Colby PG series pulse generators
Form Factor	benchtop pulse generator

PARAMETER	VALUE
System Role	ECL/TTL and multi-GHz pulse stimulus
Brand Lineage	Colby Instruments
Queue Title	Colby Instruments PG Series Pulse Generator

Specifications

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Instrument Type	high speed pulse generator
Pg1000a Ecl Range	1 MHz to 1000 MHz
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Duty Cycle High	30 to 70 percent up to 500 MHz (PG1000A)
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Ttl Rise Time	less than 750 ps (PG1000A)
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Pg1000a Ambient	10 C to 30 C recommended
Pg1000a Dimensions	13 3/8 inchLx 12 7/8 inchWx 5 1/4 inchHPg1000a Mass: 6 kg (13.0 lb)
Pg1000a Control	manual front panel only
Pg5000a Rate	10 MHz to 5000 MHz in a single range
Pg5000a Channels	2 independent outputs
Pg5000a Amplitude	2 V nominal per side, typically within plus or minus 10 percent
Pg5000a Matching	transition time matching 20 ps typical at plus 10 dBm input
Pg5000a Mains	115/230 Vac internally selected
Pg5000a Use	high-speed GaAs circuits and laser diode drive
Manufacturer	Colby Instruments
Literature	Colby PG1000A pulse generator listings; Colby PG5000A 5 GHz listings
Family	Colby PG series pulse generators
Form Factor	benchtop pulse generator
System Role	ECL/TTL and multi-GHz pulse stimulus
Brand Lineage	Colby Instruments

PARAMETER	VALUE
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Queue Title	Colby Instruments PG Series Pulse Generator
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Notes

From Colby PG1000A listings (1 MHz to 1 GHz ECL, duty-cycle table, 110 Vac 90 W, 6 kg) and PG5000A listings (10 MHz to 5 GHz, 2 V nominal, two channels, 115/230 Vac). The remaining-queue token is PG; the faceplate model (PG1000A or PG5000A) is on the unit.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.