

PULSE GENERATORS

20/50 MHz Pulse Sources

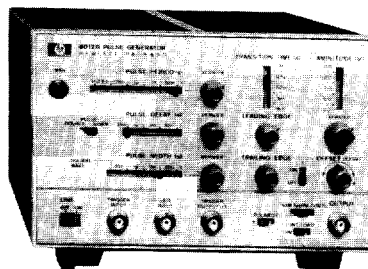
Models 8011A/8012B & 8013B

- Repetition rates up to 50 MHz
- Fixed transitions down to 3.5 ns
- Variable transitions from 5 ns to 0.5 s

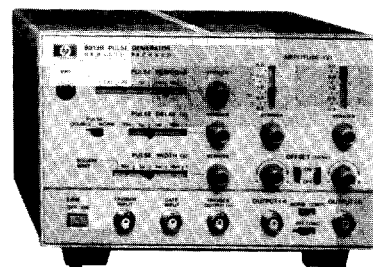
- Output voltage up to 16V
- Up to 2 ch., select. output formats
- Selectable source impedance



HP 8011A



HP 8012B

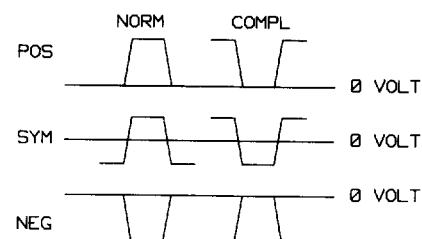


HP 8013B

Specifications

Model Parameter	HP 8011A	HP 8012B	HP 8013B
Period	50ns to 10s	20ns to 1s	20ns to 1s
Pulse width	25ns to 100ms	10ns to 1s	10ns to 1s
Duty Cycle in pulse compl.	>50% 100%	40% to 75% 100%	40% to 75% 100%
Pulse delay	—	35ns to 1s	35ns to 1s
Transition Times (int. Load IN)	<10ns fixed —	6ns to 0.5s 5ns to 0.5s	5ns fixed 3.5ns fixed
jitter	0.1% of prog. value + 50ps	0.1% of prog. value + 50ps	0.1% of prog. value + 50ps
max. out. voltage 50 Ohm source to 50 Ohm load into open offset overshoot, ringing may increase to:	8V 16V — <±5% <±10% if ccw of vernier	5V 10V ±2.5V <±5% <±10% for int. load OUT	5V 10V ±2.5V <±5% <±10% for int. load OUT
switchable Source impedance 50 Ohm / high imp	yes	yes	yes
Square wave, max frequency	10MHz	25MHz	25MHz

The HP 8011A 20 MHz, HP 8012B and HP 8013B 50 MHz Pulse Sources are versatile and reliable low-cost pulse generators. They provide the suitable solution to almost all digital logic testing problems. The simple and logical operation, which is achieved by a clearly designed front panel, guarantees rapid familiarization; the risk of setting up incompatible parameters is minimized. The instruments feature normal and complement output modes and a switchable internal 50 Ohm source. These features and performance emphasize the cost effectiveness of these models for many applications.



Supplemental Specifications

(values describe typical, non-warranted performance)

Operating Modes

HP 8011A

Manual: front panel pushbutton for generating single pulse

Ext. Repetition Rate: 0 Hz to 20 MHz. In square wave mode, output frequency is half the input frequency.

Trigger source: manual or ext. signal. Min. ext. signal width > 10 ns.

Pulse burst mode (option 001): preselected number (up to 9999) of pulses generated on receipt of trigger.

Burst trigger source: man. or ext. signal. Min. signal width is 25 ns.

HP 8012B & HP 8013B

Manual: front panel pushbutton for generating single pulse

Ext. Repetition Rate: 0 Hz to 50 MHz. In square wave mode, output frequency is half the input frequency.

Trigger source: manual or ext. signal. Min. ext. signal width > 7 ns.

Gate mode: Last pulse is completed even if the gate signal ends during pulse.

General

Operating temperature: 0°C to 55°C

Humidity: 95% RH from 0°C to 40°C

Power: 100/120/220/240 Vrms, +5%, -10%, 48 to 440 Hz, 70 VA max.

Weight: 4 kg (9 lbs)

Dimensions (HxWxD): 142 mm x 200 mm x 330 mm
5.6 in x 7.9 in x 13 in

Ordering Information

HP 8011A 20 MHz Pulse Generator

HP 8012B 50 MHz Pulse Generator

HP 8013B 50 MHz Pulse Generator

Options

001 Counted Burst for HP 8011A

910 Additional Operating and Service Manual for HP 8011A or HP 8012B

Accessories

HP 15179 Rack Mounting Kit

Adaptor for rack-mounting one or two pulse generators HP 8011A, HP 8012B or HP 8013B

☎ Fast-Ship Product — see page 766.

Price

\$1250

\$1950

\$1900

\$370

\$20

\$13

\$235 ☎