

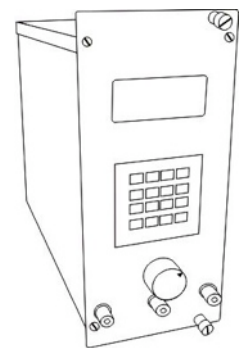
This is our best pulser.



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B N C | m o d e l | P B - 5



M O D E L | P B - 5

155 μ V RESOLUTION • ± 10 ppm JITTER • 100% Programmable

- Excellent Linearity, Stability and Resolution
- Built in Ramp Generator
- High Rep Rates
- Free LabVIEW Driver



BNC

model

PB-5

SPECIFICATIONS

| | |
|--|--|
| Rep Rate | 2.0 Hz to 500 kHz |
| Width | 100 ns to 1 ms |
| Delay | 250 ns to 10 ms |
| Rise Time | 50 ns to 10 us (10 % - 90 %) in 8 steps |
| Decay Time | 0.5 us to 1.0 ms (100 % - 37 %) in 11 steps |
| Pulse Type | Flat-top or Tail pulse - In tail mode, rise time is a fixed 50 ns, decay time is adjustable. - In flat-top mode, both rise time and decay time are adjustable |
| Polarity | Positive/Negative |
| Ext. Trigger | 0 to 500 kHz, +100 mV to +3.5 v, threshold adjustable |
| Modes | - Single pulse via a front panel pushbutton - Internal Rep Rate - External Trigger - External Gate with the same pulse requirements as EXt Trigger - Clamped baseline option to bring the baseline to zero prior to the next pulse - Internal Ramp-adjustable start and stop points; adjustable ramp period 30-900s; selectable number of ramp cycles; ramp in keV or volts |
| Remotete | RS232 at 9600 baud |
| Power Required | +24V 170 ma -24V 150 ma +12V 450 ma -12V 5 ma |
| Mechanical | Triple-width AEC NIM module 4.05" wide x 8.70" high in accordance with TID-20893 (Rev 3.) |
| Weight | 2 lbs. 13 oz. net, 6 lbs shipping |
| Portable power supply available | See BNC Model AP-3 Portable NIM Power Supply |

AMPLITUDE

| | |
|-------------------------------|---|
| | 0.0 to 10.0 V (0 to 5 V into 50 ohms) Scaleable in energy units. (keV) |
| Resolution | 155 uV |
| Jitter | ± 10 ppm |
| Attenuation | 0, 2, 5, 10, 20, 50, 100, 200, 500, 1000 |
| Integral non-linearity | ± 15 ppm |
| Temperature stability | ± 5 ppm per °C from 20°C to 45°C |

The Model PB-5 provides unprecedented performance in a precision pulse generator. It includes a full-featured, highly flexible ramp generator, parameter programmability and flash memory.

As a precision pulse generator, the PB-5 surpasses or equals all existing designs in the important performance areas of resolution, linearity and stability. The pulse repetition rates, which are variable over a broad range, go up to 0.5 MHz. The higher rates are required when testing for MCA and PHA linearity because of the high number of data points required for a statistically valid test.

The built-in ramp generator allows you to control ramp duration, the number of ramps and ramp limits. Now you can test the entire range of your system or just a portion of that range. This ramp generator and precision pulse generator combination allows you to tackle the most demanding applications.

The 4x16 LCD display, keypad, and a spinner knob provide a user interface that is easy to use. The RS232 interface is also standard along with memory that will store recall nine pulse settings. Parameters can be selected and changed by spinner knob and/ or keypad push-buttons.

