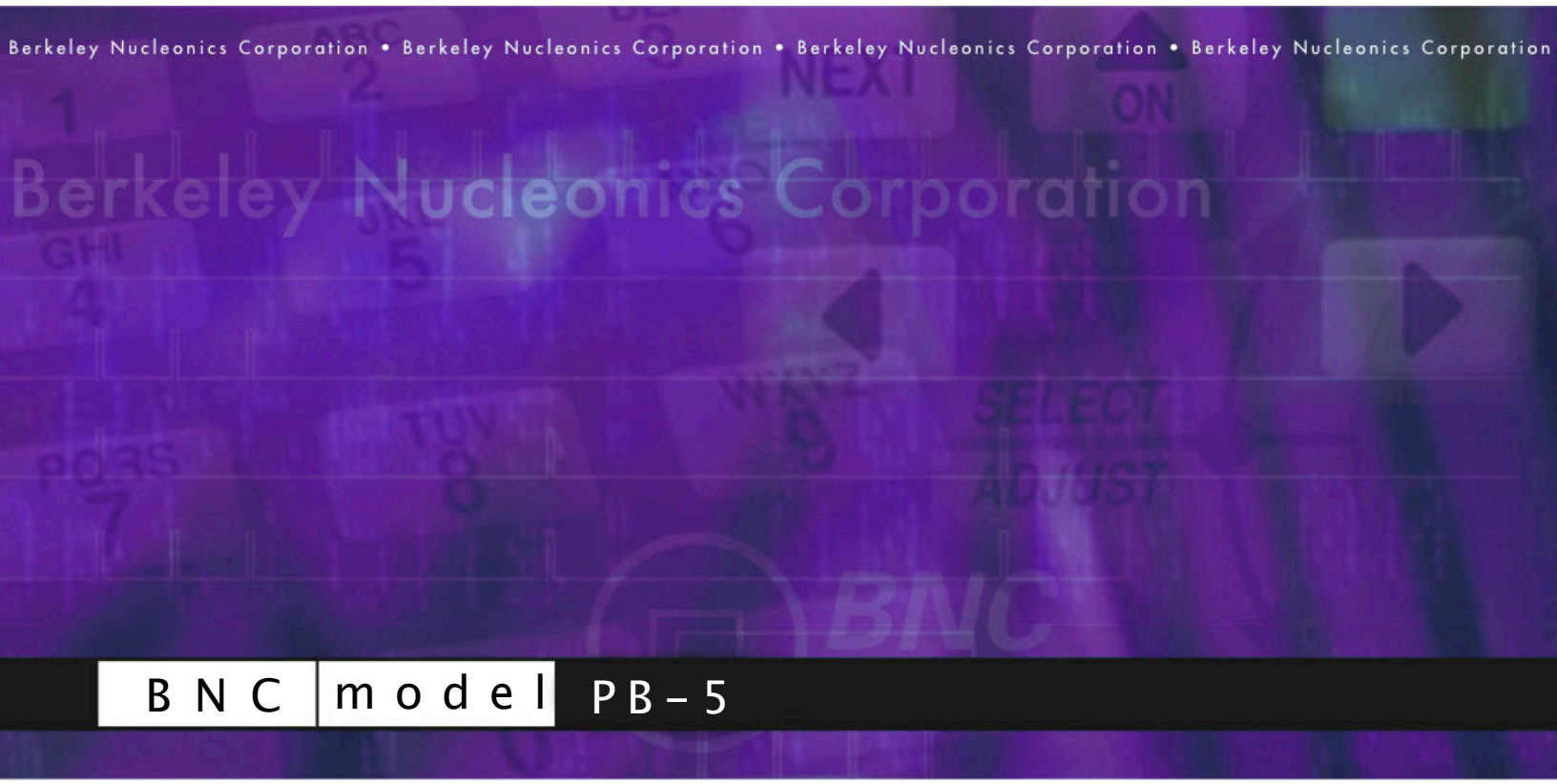
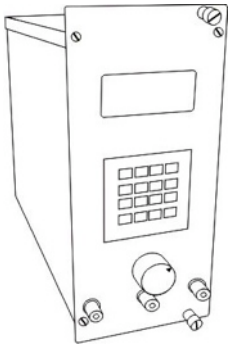
This is our best pulser.





M O D E L PB-5

155 uV 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 keVor 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 ºC from 20ºC to 45ºC

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.

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