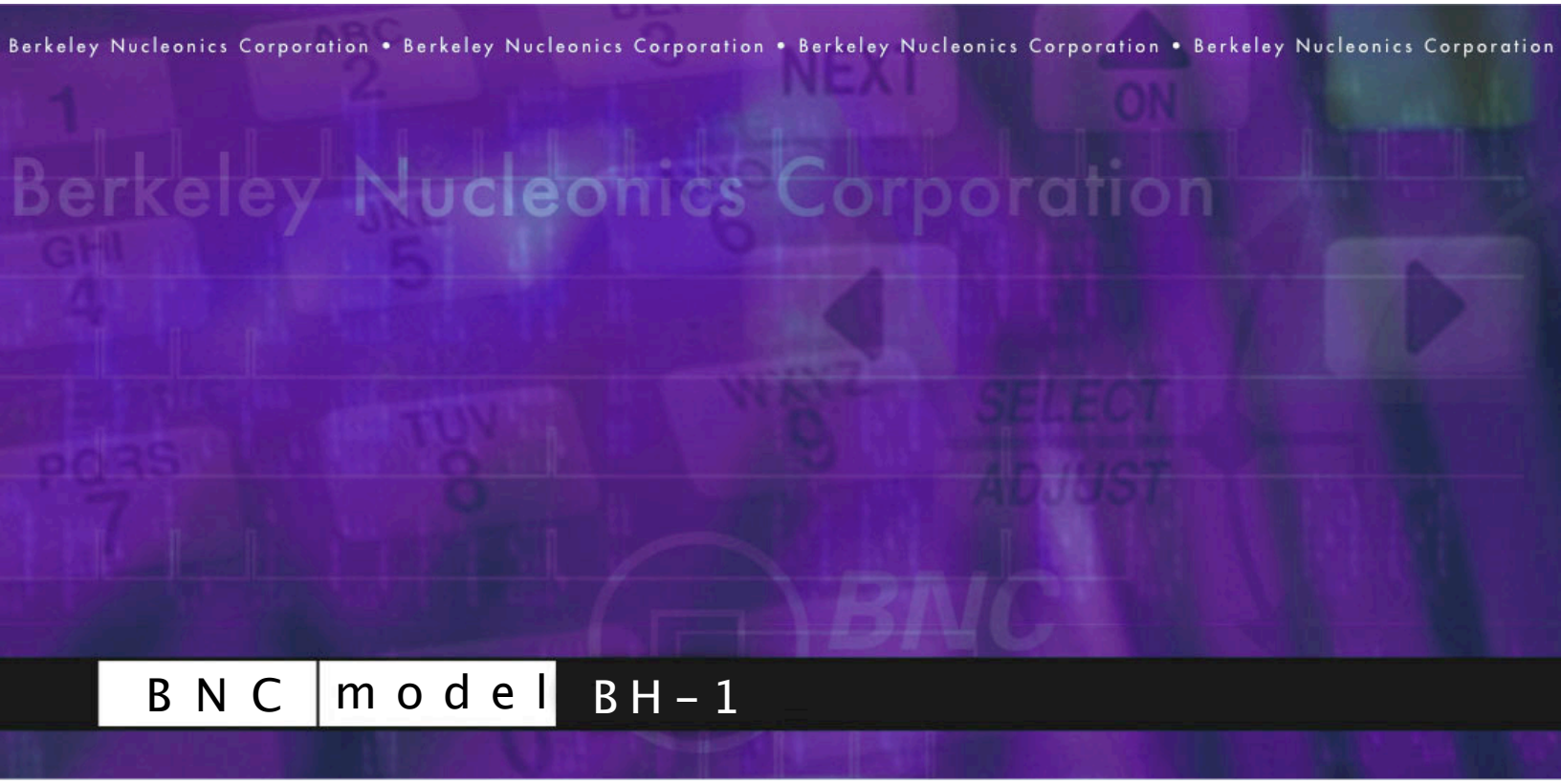
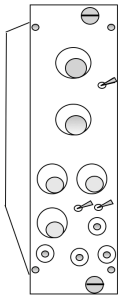
General Purpose Tail Pulse Generator





M O D E L BH-1

- Amplitude jitter less than 0.002% rms
- Adjustable delay from -50 nS to 10 ms
- Excellent integral linearity
- Adjustable rise and fall time

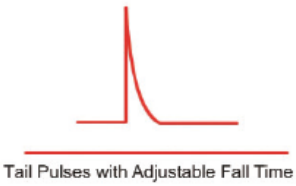
BNC model BH-1

SPECIFICATIONS

Frequency	10 Hz to 1 MHz, continuously adjustable.
External Trigger	Requires 1 volt, positive pulse.
Single Cycle	One pulse occurs each time the push button is pressed.
Single/Double Pulse	This toggle provides for a pulse pair whose separation is varied by the delay controls. Minimum separation is 50 ns.
Rise Time of Output (10-90%)	20 ns to 50 us (in 11 steps), exponential shape and independent of decay time.
Decay Time Constant of Output(100-37%)	50 ns to 1000 us (in 11 steps), exponential shape and independent of risetime for decay/rise time >10.
Trigger Out	Positive 3 volt pulse, 10 ns rise time, 0.2 us width, 50 ohms output impedance.
Delay	-50 ns advance to 10 ms delay (between Trigger Out and leading edge of output pulse).
Output Amplitude	Zero to 9.99 volts maximum. Adjustable by ten-turn potentiometer.
Attenuator	X10 and X100 providing up to 1000: 1.
Integral Linearity of Output	±0.1%.
Duty Factor Effect	Amplitude shift less than 0.1% below 30% duty factor. Duty factor in percent for tail pulses is defined as: (8 decay time constants/pulse spacing) X100.
Output Polarity	Positive or negative.
Output Impedance	50 ohms.
External Reference Input	±15 volts max.
Jitter of Frequency and Delay	Less than 0.1%.
Temperature Coefficient of Output	Less than 0.03%/°C.
Amplitude Jitter (Resolution)	Less than 0.01% peak, 0.002% rms of pulse amplitude.
Power Required	+24 V at 50 mA, -24 V at 50 mA, +12 V at 175 mA, -12 V at 80 mA.
Mechanical Dimensions	Double-width AEC module, 2.70 inches wide by 8.70 inches high.
Weight	3.5 lbs. net, shipping 7 lbs.

The Model BH-1 is a tail pulse generator which simulates the broad range of pulses encountered in the nuclear field. Typical applications of the Model BH-1 include: determining the proper timing of linear gates and coincidence units, linearity measurements of amplifiers, threshold setting of discriminators and single channel analyzers, and measuring resolution flow noise preamplifiers.

Generate Logic Pulses for Triggering, Delaying and Gating



Tail Pulses with Adjustable Fall Time

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