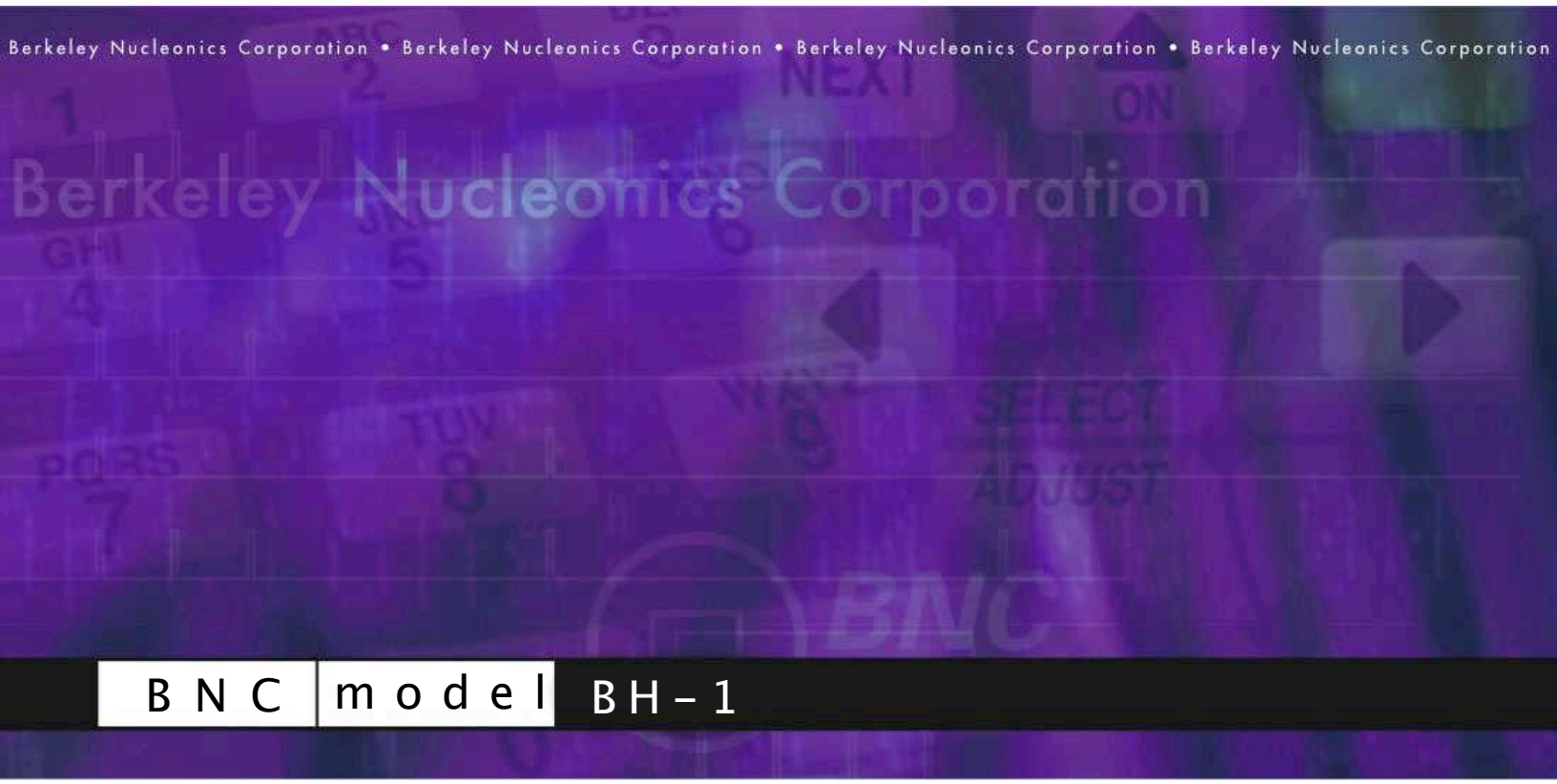
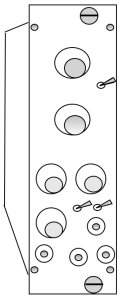
Inexpensive General Purpose Pulse Generator

BNC





M O D E L BH-1

- Amplitude jitter: less than 0.002% rms
- Delay adjustable from -50 nS to 10 ms
- Integral linearity of amplitude ±0.1%
- Fall time 50 nS - 1000 /°s

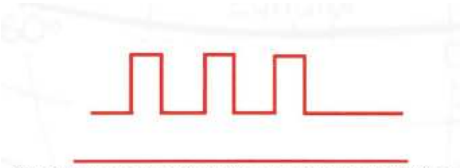
CE CORNES Technologies コーンズテクノロジー株式会社

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 o flow noise preamplifiers.



Generate Logic Pulses for Triggering, Delaying and Gating

Tail Pulses with Adjustable Fall Time

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