



SPECIFICATIONS

SECTION 1

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 μ s (in 11 steps), exponential shape and independent of decay time.

DECAY TIME CONSTANT OF OUTPUT (100-37%): 50 ns to 1000 μ s (in 11 steps), exponential shape and independent of rise time.

TRIGGER OUT: Positive 2 volt pulse, 30 ns rise time, 0.2 μ s 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: $\pm 0.1\%$.

DUTY FACTOR EFFECT: Amplitude shift less than 0.1% below 30% duty factor. Duty factor in per cent 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: 10 volts max. Positive.

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. Conforms to AEC Report TID-20893 (Rev. 2).

WEIGHT: 3½ lbs. net, shipping 7 lbs.