

Model 513 - sine, square, triangle, sync.
Models 516 and 517 - sine, square, triangle, sync, ramp, pulse.

Model 516 - run, gate, trigger, pulse, burst, sweep.
Model 517 - run, gate, trigger, pulse, burst, linear sweep, log sweep.

DYNAMIC FREQUENCY RANGE: 0.01Hz to 11MHz.

± (1% of setting plus 1% of range) 1Hz to 1MHz.
± (2% of setting plus 2% of range) 1MHz to 11MHz.

MAIN OUTPUT: 50 Ω output impedance.
20V P-P into open circuit.
10V P-P into 50 Ω .

MODELS 516 AND 517 RAMP 10V peak into open circuit.
5V peak into 50Ω

ATTENUATOR: 60db in 10db steps plus 20db continuously variable (80db total).

DC OFFSET: Variable, may be switched in or out.
+10 to -10 volts open circuit.
+5 to -5 volts into 50 ohms.

NOTE: Waveform will clip if D.C. offset plus signal exceeds maximum peak voltage.

SQUARE WAVEFORM: Rise and fall, $<20\text{nsec.}$
Overshoot and ringing, $<5\%$ of maximum P-P amplitude.

SYMMETRY (time): $\pm (1\% + 10\text{nsec})$.

SINE WAVE DISTORTION: <0.5% to 100KHz.
No harmonics <30db down 100KHz to 11MHz.

SINE FREQUENCY RESPONSE: <0.1db to 100KHz. < 2db to 11MHz.

TRIANGLE LINEARITY: 99% to 100KHz.

SYNC OUTPUT: Square wave, 4V P-P open circuit. 100Ω output impedance.

VCF: (Voltage controlled frequency) Approx. 5V input for 1000:1 (three decades) frequency control.

FREQUENCY STABILITY: 0.05% of setting for 10 min.
0.25% of setting for 24 hrs.

AMPLITUDE STABILITY: 0.05% of max. P-P amplitude for 10 min.
0.25% of max. P-P amplitude for 24 hrs.

GATE AND TRIGGER MODES: (Models 516 and 517 only).

Input - D.C. coupled, approx. $1K\Omega$ input impedance. Requirements - manual or external voltage of approx. 1 volt for turn on.

RAMP GENERATOR (Models 516 and 517 only).

Frequency range: 100 sec to $10\mu\text{sec}$.

Modes: run, trigger, cal.

Aux ramp output: Typically 5V peak open circuit. 100Ω output impedance.

V:F

Output voltage directly related to frequency. Approx. 5mV to 5V for 1000:1 range.