WAVEFORMS: Model 513 - sine, square, triangle, sync. Models 516 and 517 - sine, square, triangle, sync, ramp, pulse. MODES OF OPERATION: 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. FREQUENCY ACCURACY: ± (1% of setting plus 1% of range) 1Hz to 1MHz. ± (2% of setting plus 2% of range) 1MHz to 11MHz. MAIN OUTPUT: 50Ω output impedance. 20V P-P into open circuit. 10V P-P into 50Ω . 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, <20nsec. Overshoot and ringing, <5% of maximum P-P amplitude. SYMMETRY (time): \pm (1% + 10nsec). 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. 10Ω 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.

SECTION 1

SPECIFICATIONS

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 10µsec.

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.