2 MHz Sweep/Function Generator
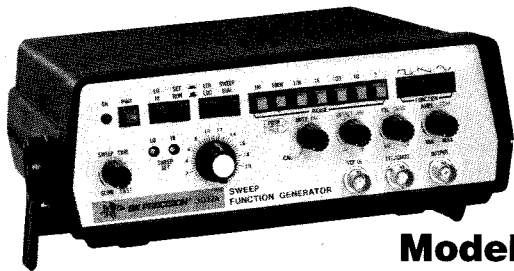

- Generates sine, triangle, square, pulse and ramp waveforms
- Settable START and STOP sweep frequencies
- TTL Pulse and CMOS Pulse outputs
- Voltage Controlled Frequency (VCF) input
- Variable amplitude output, plus 20 dB step attenuator
- Continuously adjustable sweep width - up to 1000:1 ratio
- LIN/LOG sweep mode operation

Model 3017A

SPECIFICATIONS

OUTPUT CHARACTERISTICS

Waveforms: Sine, triangle, square, TTL pulse, and CMOS pulse.
Frequency Range: 0.2 Hz to 2 MHz (7 ranges).
Frequency Dial Accuracy: ±5%.
Amplitude: 20 V p-p (open circuit). 10 V p-p (into 50 Ω load).
Attenuation Impedance: 50 Ω ±10%. Continuously variable, 30 dB, and 20 dB step.
DC Offset: Continuously variable, from -10 V to +10 V (open circuit), -5 V to +5 V into 50 Ω.
Variable Symmetry: 1:1 to 10:1.

SINEWAVE

Distortion: 0.2 Hz to 200 kHz; ≤1%.

Amplitude Flatness: 0.2 Hz to 100 kHz; ≤0.1 dB, 100 kHz to 2 MHz; ≤0.5 dB.

SQUARE WAVE

Symmetry: 0.2 Hz to 100 kHz; ≤2%.
Rise Time: ≤120 ns.

TRIANGLE WAVE

Linearity: 0.2 Hz to 100 kHz; 98%. 100 kHz to 2 MHz; 95%.

TTL PULSE

Amplitude: ≤3 V p-p.
Rise Time: ≤25 ns.

CMOS PULSE

Amplitude: Continuously adj. from 4 V p-p (±1 V p-p) to 14.5 V p-p (±0.5 V p-p).
Rise Time: ≤120 ns.

VCG (Voltage Controlled Generator)

Input Control: Approx. + 10 V (±1 V) causes 1000:1 frequency change.
Input Impedance: 10 kΩ ± 5%.

SWEEP CHARACTERISTICS

Sweep Width: Continuously adjustable, 1000:1 ratio maximum, HI:LO frequency can be set.
Sweep Time: 0.5 s - 30 s adjustable.

GENERAL

Mode: LIN/LOG operation.
Power Source: 120/220/240 VAC ±10%, 50/60 Hz.
Dimensions: (HxWxD) 23.7 x 8.5 x 28.4 cm (9.33 x 3.33 x 11.8"). **Weight**: 3.0 kg (6.6 lb).

ACCESSORIES SUPPLIED

One Cable, BNC to Insulated Clips, Spare Fuse, Power Cord, Instruction Manual.

BK PRECISION