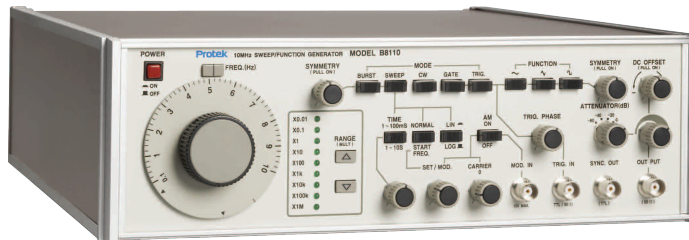


B8110 10MHz Sweep Function Generator

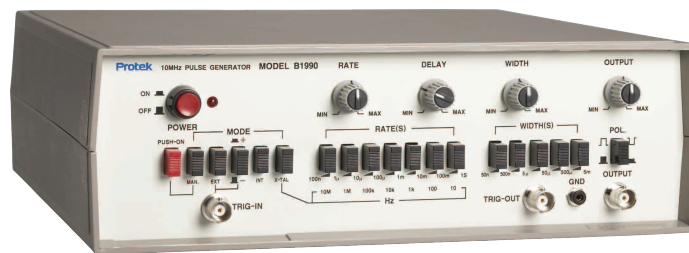
- Wide 0.01Hz to 10MHz frequency range
- Log/Lin sweep
- Burst /gate and triggered modes
- Output may be FM modulated using the VCG input.
- Low distortion Sine wave
- Sweep start and Stop capability

B1990 10MHz Pulse Generator

- 1Hz to 10MHz Frequency Range
- Variable Pulse width and Delay
- Manual and External triggering
- Output amplitude to 5V p-p (into 50Ω)
- May be crystal controlled



B8110



B1990

■ SPECIFICATIONS

[B8110]

Frequency Characteristics

Frequency Range: 0.01Hz to 10MHz

Output Characteristics

Waveforms: Sine, Square Pulse, Triangle and ramp

Impedance: 50Ω

Attenuator: 20dB, 40 dB, 60dB and 20 dB variable

Amplitude: 0 to ±10 Volts in to an open circuit

DC Offset: 0 to ±10 V in to an open circuit (0 to ±5 into 50Ω)

Sine Wave

Frequency Range: 0.01Hz to 10MHz

Flatness: ±3.5% from 0.01Hz to 100KHz

±10% 100KHz to 10MHz

Harmonic Distortion: < 0.5 % from 10 Hz to 40KHz

Symmetry: 20:80 to 80:20

Square Wave

Frequency Range: 0.01Hz to 10MHz

Rise/Fall Time: < 25ns into 50Ω

Pulse

Frequency Range: 0.01Hz to 10MHz; Rise Time: < 10ns

Duty Cycle: adjustable symmetry control from 20:80 to 80:20

Ramp and Triangle

Linearity: > 99%

Operating Modes

CW, Triggered, Gated, Burst Sweep

Trigger/Gate input level: TTL

Trigger/Gate Frequency Range: DC to 100KHz

Burst time: 1ms to 10s

Sweep

Type: Linear and Log

Sweep Time: 1ms to 2s in 2 ranges, continuously variable

Sweep width: 1:100 continuously variable. Sweep start frequency may be set with the SET/MOD control.

Modulation

Type: AM

Input: External Through the MOD input connector

Frequency: DC to 1MHz

Modulation Range: 0 to 100%

Modulation Voltage: 0 to 5V P-P

Type: FM:

Input: External through the VCG input

Tuning Range: 1000:1 with an input of 0 to -5V

Outputs

Sync: TTL level

GCV: output proportional to the selected frequency, 0 to -5V

Sweep: 0 to -5V; Sweep/Burst Gate: TTL level

General Specifications

Operating Temperature: 0 to 50°C (32 to 120°F)

Dimensions: 4.3" (H) x 12.5" (W) x 14" (D)

Weight: 15 lbs

AC line Voltage: 120/220V, 50/60Hz

Accessories: Manual, line cord, BNC cable

[B1990]

Frequency Characteristics

Frequency Range:

Internal: 1Hz to 10MHz (100ns to 1s) in 7 ranges

Xtal: 10Hz to 10MHz

Output Characteristics

Amplitude: 0.5 to 5V p-p (into 50Ω)

Impedance: 50Ω

Input Impedance: 2KΩ

Rise Time: 10ns (into 50Ω)

Output Polarity: Positive or Negative

Pulse Width Range: 50ns to 5ms in 5 ranges

Pulse Delay Range: 0 to 2μs in

Trigger

Trigger modes:

Internal, Ext (+ or - edge triggered), Xtal and Manual

Trigger out:

Width: 20ns; Amplitude: 5V; Impedance: 50Ω

External Trigger in:

Input V range: +1.0V to -1.0V P-P (sine or square wave)

Repetition Rates: 10Hz to 10MHz; Impedance: 2KΩ

General Specifications

Operating Temperature: 0 to 40°C (32 to 104°F)

at less than 85% humidity

Stability: 0.1% per hour after warm up

Dimensions: 4.3" (H) x 11.4" (W) x 10.2" (D)

Weight: 6.4 lbs

AC line Voltage: 120/220V, 50/60Hz

Accessories: Manual, line cord, BNC cable



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