# **4 MHz Sweep Function Generator**

- Wide 0.004Hz to 4MHz Frequency range
- CW/Triggered and Gated modes
- Sweep output and VCG input
- 1000:1 linear sweep and 10,000:1 frequency log sweep widths
- Settable Sweep Start and Stop Frequencies
- Low Distortion sinewave



**B8400** 

## SPECIFICATIONS =

#### Frequency Characteristics

Frequency Range: 0.004Hz to 4MHz in 7 ranges Ranges: x1, x10x, x100, x1K, x10k, x100k, x1M Dial Accuracy: 5% of full scale

#### **Output Characteristics**

Waveforms: Sine, Square, Triangle, TTL Pulse High output:

Amplitude: 15mV to 10V (into  $50\Omega$ ) DC Offset: 0 to  $\pm 5$  into  $50\Omega$ Impedance:  $50\Omega$ Attenuator: 30dB variable

Low Output:

Amplitude:0 to 1V (into  $50\Omega$ ) DC Offset: 0 to  $\pm 0.5$  (into  $50\Omega$ ) Impedance:  $50\Omega$ 

Attenuator: 30dB variable

### Sine Wave

Frequency Range: 0.004Hz to 4MHz Flatness

±2.0 % (0.004Hz to 400KHz)

±10% (400KHz to 4MHz)

**Harmonic Distortion:** 

< 0.5 % on the 1K and 10K range 1% on the x1, x10, x 100 and x100K ranges 25dBc on the x1M range

Square Wave

Frequency Range: 0.004Hz to 4MHz

Rise/Fall Time: < 50ns into  $50\Omega$  (High output terminals)

Website: www.protektest.com Email: sales@protektest.com

Symmetry: ±1% to 100KHz, ±5% to 4MHz

Linearity: > 99% to 200KHz

#### Operating modes

CW, Triggered, Gated, Sweep, Manually Triggered

Trigger/Gate input level: TTL

Trigger/Gate Frequency Range: to 4MHz Max. Trigger/gate minimum pulse width: < 50ns

# Sweep

Type: Linear and Log

Sweep Time: 30ms to 60 seconds continuously variable Sweep width: 1:1,000 linear; 1:10,000 log continuously variable. Sweep start and stop frequencies may be set with the Freq dial and the Freq. Stop control.

# Outputs

Sync: TTL level

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

Sweep: 4V P-P; Impedance: 600Ω

# VCG Input

Input Voltage: 0 to ±4V P-P will cause a 1:1,000 frequency

change (linear) and 1:10,000 (Log) Input Impedance:  $2K\Omega$ 

#### **General Specifications**

Operating Temperature: 0 to 50°C (32 to 120°F) Dimensions: 3.5" (H) x 11.4" (W) x 10.6" (D)

Weight: 5 lbs

AC line Voltage: 120/220V, 50/60Hz Accessories: Manual, Line cord, BNC cable