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 50Ω)
- DC Offset: 0 to ±5 into 50Ω
- Impedance: 50Ω
- Attenuator: 30dB variable

Low Output:
- Amplitude:0 to 1V (into 50Ω)
- DC Offset: 0 to ±0.5 (into 50Ω)
- Impedance: 50Ω
- 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 50Ω (High output terminals)
Symmetry: ±1% to 100KHz, ±5% to 4MHz

Triangle
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: 2KΩ

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

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