

B803 2MHz Sweep Function Generator

- Seven frequency ranges with 100:1 control on each range
- Built-in 2MHz, 4 digit frequency counter
- Less than 2% sine-wave distortion
- Variable symmetry
- DC offset and Voltage Controlled Frequency input
- TTL sync output

**B803****B810 10MHz Sweep Function Generator**

- Wide (0.01Hz to 10MHz) Frequency Range
- Burst and Triggered mode
- Sweep start/stop capability
- Six digit LED frequency readout
- Log. or Lin. sweep
- Built-in 10MHz frequency counter
- External FM with the VCG input
- Output can be amplitude modulated

**B810**

SPECIFICATIONS ■

[B803]**Output Characteristics**

Waveforms: Sine, Square, Triangle, Pulse, Ramp
 Frequency Range: 0.02Hz to 2MHz in 7 ranges
 Tuning Range: 100:1 on each range
 Frequency Accuracy: $\pm(0.01\% + 1d)$
 Frequency Stability: 0.1% after 20 minutes
 Amplitude: 2V to 20V P-P open circuit
 DC Offset: Variable from $< -10V$ to $> +10V$ open circuit
 Output Impedance: $50\Omega \pm 5\%$
 Variable Symmetry: 1:1 to 4:1
 Output Attenuation: 0 to 40dB
 (20dB $\pm 1dB$ step and 0 to 20dB variable)
 VCF Input: 100:1 tuning range
 with an input voltage level from 0 to -10V

Sine Wave

Distortion: $< 2\%$ from 10Hz to 100KHz
 Amplitude Flatness: $\leq 0.3dB$

Square Wave

Rise/Fall Time: $< 100ns$ at max amplitude

Triangle Wave

Linearity: $> 98\%$ to 100KHz

Sweep Characteristics

Sweep Mode: Linear
 Sweep Time: Variable from 20ms to 2s
 Sweep Width: Variable from 10:1 to 1000:1

Frequency Counter

Modes: Internal and External; Display: 4 digit red LED
 Measuring Range: 10Hz to 2MHz
 Accuracy: $\pm 0.01\% \pm 1$ count; Sensitivity: 50mV RMS
 Max Input V: 140V P-P; Input Impedance: $1M\Omega$

General Specifications

Power Requirements: AC Line Voltage: 100/120/220/240V
 $\pm 10\%$; Frequency: 48Hz to 66Hz
 Power Consumption: Approx. 5VA
 Operating Temperature: 0 to 50°C
 Size: 3.3" H \times 8.8" W \times 10.1" D; Weight: 8 lbs
 Supplied Accessories: Manual, Line cord, BNC cable

[B810]**Output Characteristics**

Frequency Range: 0.01Hz to 10MHz in 9 ranges
 Output Level: ± 10 Volts into 50Ω
 Waveforms: Sine, Square, Ramp, Pulse
 Attenuator: 20dB, 40dB, 60dB & 20dB variable
 Impedance: 50Ω ; DC Offset: $\pm 5V$ in to 50Ω

Sine Wave

Flatness: $\pm 0.2dB$; 0.01Hz to 100KHz; Distortion: 0.5%

Triangle Wave

Linearity: $> 99\%$

Square Wave

Rise/Fall Time: $\leq 25ns$ (into 50Ω)

Pulse

Duty Cycles: 20:80 to 80:20 may be obtained

Operating Modes : CW, Triggered, gated, burst, sweep

Trigger/Gate Input Level: TTL; Burst Time: 1ms to 10s
 Trigger/Gate Freq. Range: 0.1Hz to 1MHz

Sweep

Types: Linear and Log
 Sweep Time: 1ms to 10s; Sweep Width: Variable to 100:1
 Start Freq: 0.01Hz to 10MHz

AM Modulation

Type: Internal
 Modulation Level: 0 to 100%; Modulation Voltage: 0 to 5V
 Modulation Frequency: DC to 1MHz

FM Modulation

Type: External
 Tuning Range: 1000:1 with an input voltage of 0 to -5V (VCG)

Frequency Counter

Measuring Range: 1Hz to 10MHz
 Gate Time: 0.01s, 0.1s, 1s, 10s
 Accuracy: $\pm 0.01\%$; Sensitivity: 50mV RMS
 Max Input V: 250V DC and AC RMS; Input Impedance: $1M\Omega$

General Specifications

Power Requirements: AC Line Voltage: 100/120/220/240V
 $\pm 10\%$; Frequency: 48Hz to 66Hz
 Power Consumption: 9VA
 Operating Temperature: 0 to 50°C
 Size: 3.8" H \times 11.5" W \times 12.5" D; Weight: 8 lbs
 Supplied Accessories: Manual, Line cord, BNC cable