Sweep Function Generators 2 and 10 MHz

B801/B803 2MHz Sweep Function Generator

- Seven frequency ranges with 100:1 control on each range
- Built-in 2MHz, 4 digit frequency counter (B803)
- Less than 2% sinewave distortion
- Variable symmetry
- DC offset and Voltage Controlled Frequency input
- TTL sync output

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

B803

B801

B810

SPECIFICATIONS

[B801/B803]

Output Characteristics
Waveforms: Sine, Square, Triangle, Pulse, Ramp
Frequency Range: .02Hz to 2MHz in 7 ranges
Tuning Range: 100:1 on each range
Frequency Accuracy: B801: 5% of FS; B803: ± (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: 50Ω ±5%
Variable Symmetry: 1:1 to 4:1
Output Attenuation: 0 to 40dB
(20dB ±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: ≤ 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 (B803)
Modes: Internal and External; Display: 4 digit red LEDS
Measuring Range: 10Hz to 2MHz.
Accuracy: ±0.01% ± 1 count; Sensitivity: 50mV RMS
Max Input V: 140V P-P; Input Impedance: 1MΩ

General Specifications
Power Requirements: AC Line Voltage: 100/120/220/240V ±10%; Frequency: 48Hz to 66Hz
Power Consumption: Approx. 5VA
Operating Temperature: 0 to 50°C
Size: 3.3" H × 8.8" W × 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: ±5V in to 50Ω

Sine Wave
Flatness: ±0.2dB: 0.01Hz to 100kHz; Distortion: 0.5%

Triangle Wave
Linearity: > 99%

Square Wave
Rise/Fall Time: ≤ 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 to1MHz

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: ±0.01%; Sensitivity: 50mV RMS
Max Input V: 250V DC and AC RMS; Input Impedance: 1MΩ

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

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