

B801 2MHz Sweep Function Generator

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

**B801****B850 Audio Generator**

- Wide 10Hz to 1MHz Frequency range
- Low distortion Sine wave and Square wave output
- Lightweight, Rugged construction
- Frequency setting via large frequency dial
- Ideal for classroom or audio bench

**B850**

SPECIFICATIONS ■

[B801]**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:** $\pm 5\%$ of FS**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 ± 1 dB 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:** ≤ 0.3 dB**Square Wave****Rise/Fall Time:** < 100 ns 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**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**[B850]****Output Characteristics****Frequency Range:** 10Hz to 1MHz in 5 ranges**Frequency Accuracy:**10Hz to 1MHz: $\pm 5\%$ 100Hz to 100KHz: $\pm 3\%$ **Amplitude:** $> 20V$ P-P open circuit; $> 10V$ P-P into 600 Ω **Output Impedance:** 600 Ω **Output Attenuation:** 0dB, 20dB, 40dB steps and fine adjustment attenuator control**Sine Wave Characteristics****Distortion:** $< 0.05\%$ from 500Hz to 50KHz $< 0.5\%$ from 50Hz to 500KHz**Square Wave Output****Frequency Range:** 10Hz to 100KHz**Output Voltage:** $> 15V$ P-P**Rise Time:** < 500 ns**External Sync Input****Input Impedance:** Approx. 10K Ω **Max. Input Voltage:** 10V RMS**General Specifications****Power Requirements:** 115/230V $\pm 10\%$ **Frequency:** 48Hz to 66Hz**Power Consumption:** 3VA**Size:** 6.0" H \times 10.0" W \times 5.0" D**Weight:** 5.5 lbs**Supplied Accessories:** Manual, Line cord, Test leads