

Audio Generator



Features:

- Wide frequency range, 20 Hz to 150 KHz, with flat output response
- Low distortion sine-wave output
- Clean-cut square wave for transient response testing
- 46 steps of selected frequency

Specifications: (at 10°C to 30°C, 80% Relative Humidity)

General

Frequency Range	: X1 range 20 Hz to 1.5 KHz X100 range 2 KHz to 150 KHz both with 23 steps of selected frequency
Accuracy	: 20 Hz to 100 KHz ($\pm 3\%$ or less) 100 KHz to 150 KHz ($\pm 5\%$ or less)
Output Control	: 0 dB, -20 dB and fine adjuster
Output Impedance	: 600 Ω $\pm 10\%$

Sine Wave Characteristics

Output Voltage	: 1.2 V RMS Maximum (No load)
Output Flatness	: 20 Hz to 150 KHz ± 0.5 dB (Reference Frequency 1 KHz)
Distortion	: 200 Hz to 15 KHz $\pm 0.05\%$ (THD) or less 50 Hz to 30 KHz $\pm 0.1\%$ (THD) or less 20 Hz to 100 KHz $\pm 0.3\%$ (THD) or less

Square Wave Characteristics

Output Voltage	: 8 Vp-p maximum (when on load)
Rise and Fall Time	: Less than 0.5 μ s
Sag	: Less than 5% at 20 Hz
Over Shoot	: Less than 2% at maximum output
Duty Ratio	: 50% $\pm 5\%$

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Synchronization Characteristics

Output Voltage : 1.2 V RMS (no load)
Output Impedance : 1 K Ω \pm 5%
Output spec same as sine wave above

General Information

Operating Temperature : 0°C to 50°C (specifications apply at 10°C to 30°C)
Storage Temperature : -20°C to 60°C (battery removed)
Power Requirements : 9 V battery, NEDA 1604 (included)
Battery Life : Up to 50 hours typical with alkaline
Up to 30 hours typical with zinc carbon
Battery Indicator : LED lamp indicates when approximately 20% battery life remains
Dimensions : 15 cm (L) \times 8.2 cm (W) \times 2.1 cm (H)
Weight : 200 g (with battery)
Includes : User's manual, test leads, 9 V battery (zinc carbon)

Part Number Table

Description	Part Number
Audio Generator	72-505

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