

# Hand Held Audio Generator



## Features:

- Wide frequency range
- Sine and square wave output
- Sync output
- Variable amplitude
- Output attenuator (-20dB)
- 600Ω output impedance
- Low battery indicator
- Includes owners manual, 9V battery and test leads

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

### General

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

### Sine Wave Characteristics

Output Voltage	: 1.2 V RMS Maximum (No load)
Output Flatness	: 20Hz to 150kHz ±0.5 dB (Reference Frequency 1kHz)
Distortion	: 200Hz to 15kHz ±0.05% (THD) or less 50 Hz to 30 KHz ±0.1% (THD) or less 20 Hz to 100 KHz ±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 μs
Sag	: Less than 5% at 20 Hz
Over Shoot	: Less than 2% at maximum output
Duty Ratio	: 50% ±5%

### Synchronization Characteristics

Output Voltage	: 1.2V <sub>RMS</sub> (no load)
Output Impedance	: 1kΩ ±5%
Output spec	same as sine wave above



# Hand Held Audio Generator



## 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 : 3-3/8"(W) × 6"(H) × 1"(D)  
Weight : 200 g (with battery)  
Includes : User's manual, test leads, 9V battery (zinc carbon)

## Part Number Table

Description	Part Number
Hand Held Audio Generator	72-505

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