

POCKET AUDIO GENERATOR



K8065

Great little gadget for service repair, testing, education, etc...

velleman[®]

Features:

Microprocessor technologyDigital waveform generation

Specifications:

- Sine wave: 50Hz, 100Hz, 1KHz, 10KHz, 20KHz
- Burst: 50Hz, 100Hz, 1KHz
- · Burst mode: 20ms ON, 500ms OFF
- · Noise: 32-bit digital pink noise
- Output level (10Kohm): 0 to 775mV (0dB)
- Outputs: 2 x RCA (cinch)
- Power supply: 2 x CR2016 or 2 x CR2025 battery (excl.)
- Dimensions: 86 x 50 x 25mm (3.4" x 2.0" x 1.0")



1. Assembly (Skipping this can lead to troubles !)

Ok, so we have your attention. These hints will help you to make this project successful. Read them carefully.

1.1 Make sure you have the right tools:

- A good quality soldering iron (25-40W) with a small tip.
- Wipe it often on a wet sponge or cloth, to keep it clean; then apply solder to the tip, to give it a wet look. This is called 'thinning' and will grotect the tip, and enables you to make good connections. When solder rolls off the tip, it needs cleaning.
- Thin raisin-core solder. Do not use any flux or grease.
- A diagonal cutter to trim excess wires. To avoid injury when cutting excess leads, hold the lead so they
 cannot fly towards the eyes.
- Needle nose pliers, for bending leads, or to hold components in place.
- Small blade and Phillips screwdrivers. A basic range is fine.

For some projects, a basic multi-meter is required, or might be handy

1.2 Assembly Hints :

- \Rightarrow Make sure the skill level matches your experience, to avoid disappointments.
- \Rightarrow Follow the instructions carefully. Read and understand the entire step before you perform each operation.
- \Rightarrow Perform the assembly in the correct order as stated in this manual
- \Rightarrow Position all parts on the PCB (Printed Circuit Board) as shown on the drawings.
- ⇒ Values on the circuit diagram are subject to changes.
- ⇒ Values in this assembly guide are correct*
- ⇒ Use the check-boxes to mark your progress.
- \Rightarrow Please read the included information on safety and customer service

* Typographical inaccuracies excluded. Always look for possible last minute manual updates, indicated as 'NOTE' on a separate leaflet.



1.3 Soldering Hints :

- 1- Mount the component against the PCB surface and carefully solder the leads
- 2- Make sure the solder joints are cone-shaped and shiny
- 3- Trim excess leads as close as possible to the solder joint

Vou will find the colour code for the resistances and the LEDs in the HALG (general manual) and on our website: http://www.velleman.be/common/service.aspx



AXIAL COMPONENTS ARE TAPED IN THE CORRECT MOUNTING SEQUENCE !

REMOVE THEM FROM THE TAPE ONE AT A TIME !





Construction

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Construction

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19. Assembly



Assembly







20. Instructions



* Burst-mode: output: 20ms on, 500ms off (50Hz, 100Hz & 1KHz only)







21. PCB layout.



22. Diagram





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