

TELEPHONE RINGER WITH BUZZER AND LED



K8087

Simply connect in parallel with phone line. Accepts standard adaptor & telephone plug.

# vellemen<sup>®</sup>

#### Features:

- ☑ accepts standard telephone plug
- ☑ simply connect in parallel with phone line
- ☑ no power supply necessary!
- ☑ buzzer sounds and powerful led flashes when phone rings
- great for noisy environments, for the hearing impaired, as additional ringer, to replace existing ringer,...

### Specifications:

- 10.000 mcd led !
- · connects to PSTN line
- RJ11 connector
- consumption: 10mA max.
- dimensions: 80x55x35mm / 3,15 x 2,16 x 1,37"

#### Includes:

- · attractive enclosure
- adhesive strips for easy fixing

#### Assembly hints

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 protect 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.
- ⇒ 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.
- $\Rightarrow$  Values on the circuit diagram are subject to changes.
- ⇒ Values in this assembly guide are correct\*
- $\Rightarrow$  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.

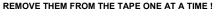




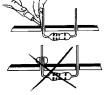


#### 1.3 Soldering Hints :

- 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



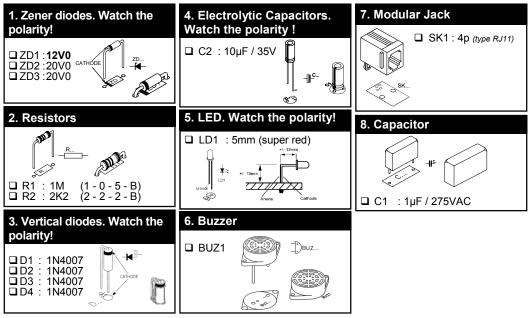
**AXIAL COMPONENTS ARE TAPED IN THE CORRECT MOUNTING SEQUENCE!** 



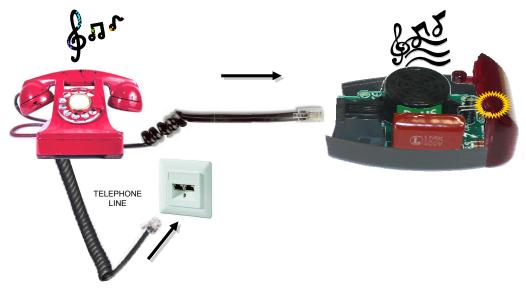






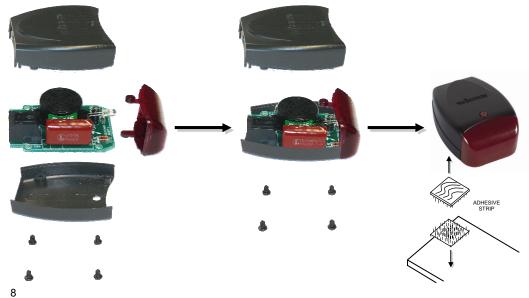


## 9. Connection

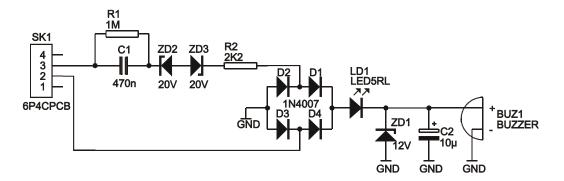


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## 10. Assembly

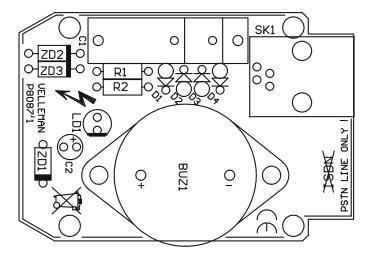


### Schematic diagram.





### РСВ



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