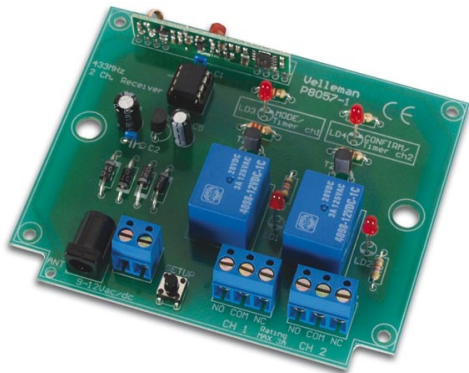


Total solder points: 91  
Difficulty level: *beginner* 1  2  3  4  5  *advanced*

## 2 CHANNEL RF RECEIVER

# K8057



For use with K8059/VM108  
2 Channel RF transmitter

### Specifications

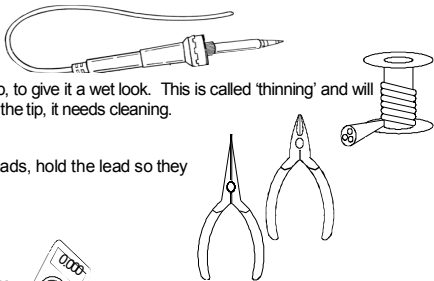
- Power supply : 9 to 12V AC or DC / 100mA max.
- Relay contacts NO / NC: 3A each.
- Selectable timers per output
- Open field range of up to 30m possible.
- On board antenna or external antenna.
- Dimensions : 100 x 82mm.

### 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 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**

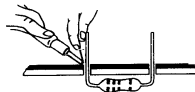


#### 1.2 Assembly Hints :

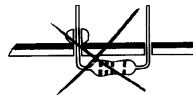
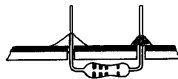
- ⇒ Make sure the skill level matches your experience, to avoid disappointments.
  - ⇒ Follow the instructions carefully. Read and understand the entire step before you perform each operation.
  - ⇒ Perform the assembly in the correct order as stated in this manual
  - ⇒ Position all parts on the PCB (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.
  - ⇒ 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 :**

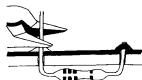
1- Mount the component against the PCB surface and carefully solder the leads



2- Make sure the solder joints are cone-shaped and shiny

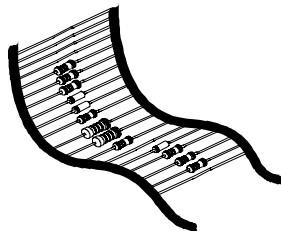


3- Trim excess leads as close as possible to the solder joint



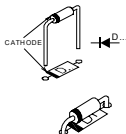
**REMOVE THEM FROM THE TAPE ONE AT A TIME !**

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

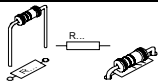


**1. Diodes / Diode / Diodo**

- D1 : 1N4148
- D2 : 1N4148
- D3 : 1N4007
- D4 : 1N4007
- D5 : 1N4007
- D6 : 1N4007



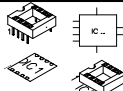
Watch the polarity! - Let op de polariteit!  
 Attention à la polarité! - Achten Sie auf die Polarität! - ¡Controle la polaridad!

**2. Resistors / Weerstand / Résistances / Widerstände / Resistencias**

- R1 : 330 (3 - 3 - 1 - B)
- R2 : 330 (3 - 3 - 1 - B)
- R3 : 330 (3 - 3 - 1 - B)
- R4 : 330 (3 - 3 - 1 - B)
- R5 : 47K (4 - 7 - 3 - B)
- R6 : 47K (4 - 7 - 3 - B)

**3. IC socket / IC voetje / support de CI / IC-Fassung / Zócalo de integrado**

- IC1 : 8p



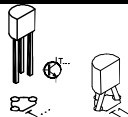
Pay attention of the notch!  
 Let op de positie van de nok!  
 Attention à la position de l'encoche!  
 Achten Sie auf des position des Nockens!  
 ¡Atención a la posición del la muesca!

**4. Capacitors / Kondensatoren / Condensateurs / Kondensatoren / Condensadores**

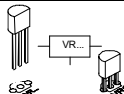
- C1 : 100nF (104)
- C2 : 100nF (104)

**5. Transistor**

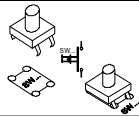
- T1 : BC547B
- T2 : BC547B

**6. Voltage regulator / Spanningsregelaar / Régulateur de tension / Spannungsregler / Regulador de tensión**

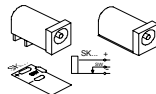
- VR1 : UA78L05

**7. Push button / Druknop / bouton-poussoir / Druckknöpfe / Pulsador**

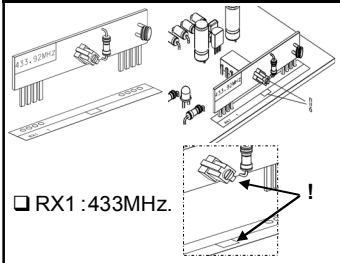
- SW1 : KRS0610

**8. DC-jack / DC connector / Connecteur CC / DC - Einbaubuchse / Conector CC**

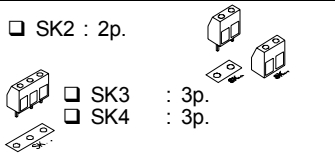
- SK1



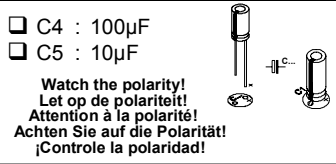
**9. Receiver module / Ontvangst-module / Module récepteur / Empfängermodul / Módulo de recepción**



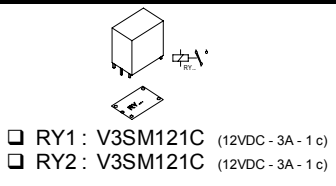
**10. Screw terminal / Schroef-connectoren / connecteurs à visser / Schraubconnectoren / Regletas de conexión**



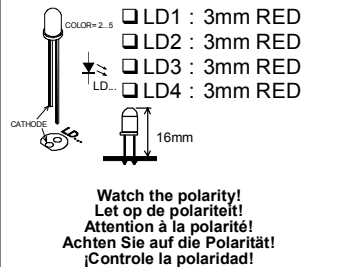
**11. Electrolytic Capacitors / Electrolytische condensatoren / Condensateurs électrolytiques / Elektrolytkondensatoren / Condensadores electrolíticos**



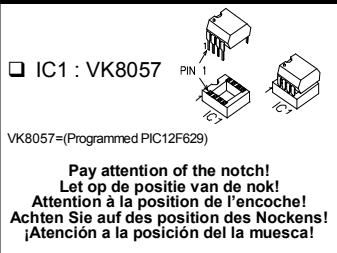
**12. Relays / Relais / Relés**



**13. LEDs**

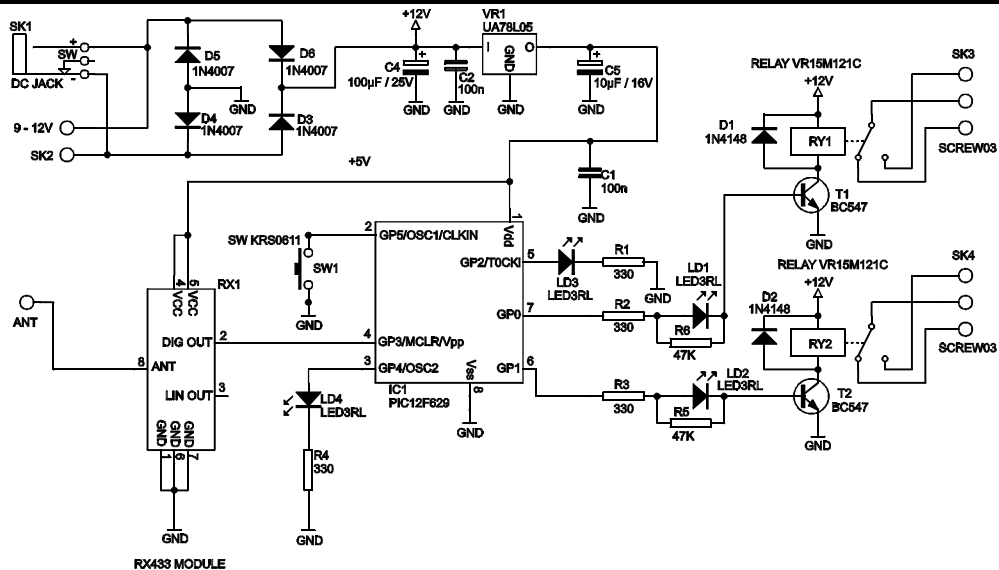


**14. IC / CI**





17. Schematic diagram / Schema / Schematisches diagram / Diagrama esquemática



# DOMOTIC SYSTEM

