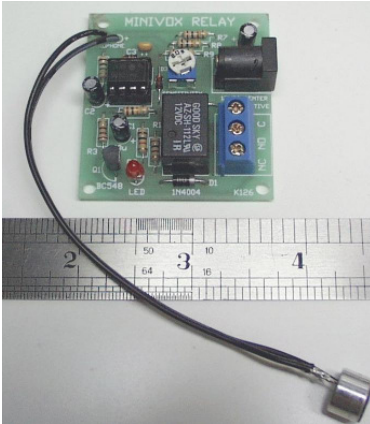


# Voice / Sound Activated Relay Switch



This mini-VOX - voice operated relay - is based on a circuit published in *Silicon Chip*, 9/1994, p31. We have improved it by putting an on-board Koa potentiometer in order to adjust the sensitivity. The idea behind a VOX is that instead of the user pressing a switch to activate a relay, the sound of the users voice itself activates the relay. This gives hands-free control over devices like lights and tape recorders. Relay stays on for 1 or 5 seconds (depending on components used) then shuts off. Different time values can be realized by using different value components (read [k126.pdf](#) for more information).

## Specifications:

- L: 2-1/4" W: 1-1/4" H: 5/8"
- Requires 12 VDC Power Supply
- Current drain when off is 5-7mA and 35mA when activated
- Relay output rated at 12VDC/10A or 240VAC/5A
- Microphone can be connected on leads up to 2 feet away from the PCB.
- Off time delay adjustable by changing component values.



# QUASAR PROJECT KIT # 3126 - MINI-VOX & RELAY

## COMPONENTS

Resistors 5%, 1/4W:	
1K brown black red R1 R7	2
2K2 red red red R3	1
10K brown black orange R2 R4 R8	3
39K orange white orange R9	1
1M brown black green R5	1
200K 204 Koa potentiometer R6	1
1N4004 D1 D4	2
1N4148 D2 D3	2
2u2 mini ecap C2 C5	2
10u mini ecap C1	1
100pF 101 mono C4	1
.1uF 104 mono C3	1
BC548 Q1	1
LM358 IC1	1
8 pin IC socket	1
Relay AX-SH-112L	1
3 pole terminal block	1
Power jack	1
3mm LED	1
Electret microphone	1
3126 PCB	1