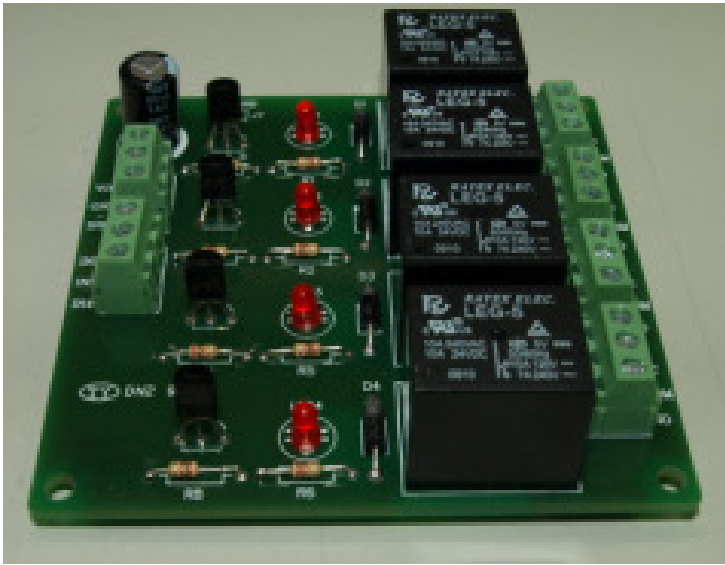
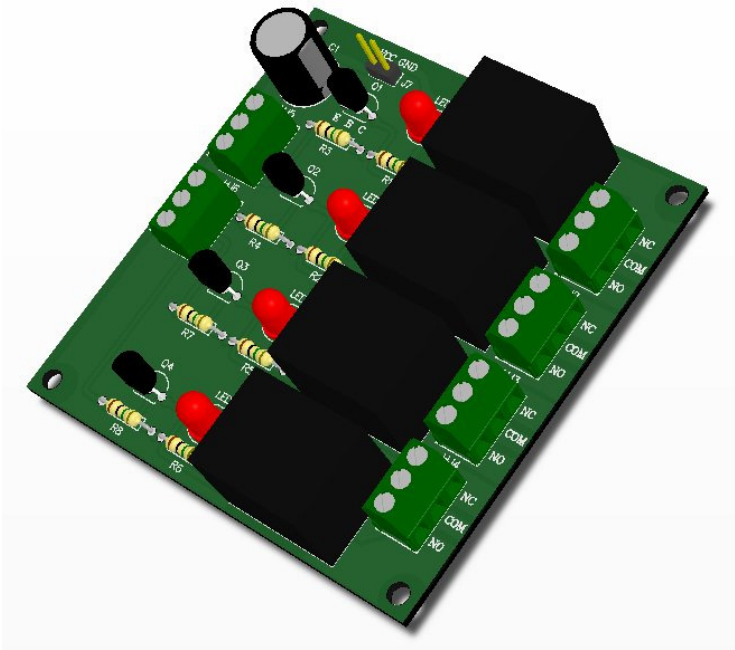


Relay Board with 4 High Sensitive Relay

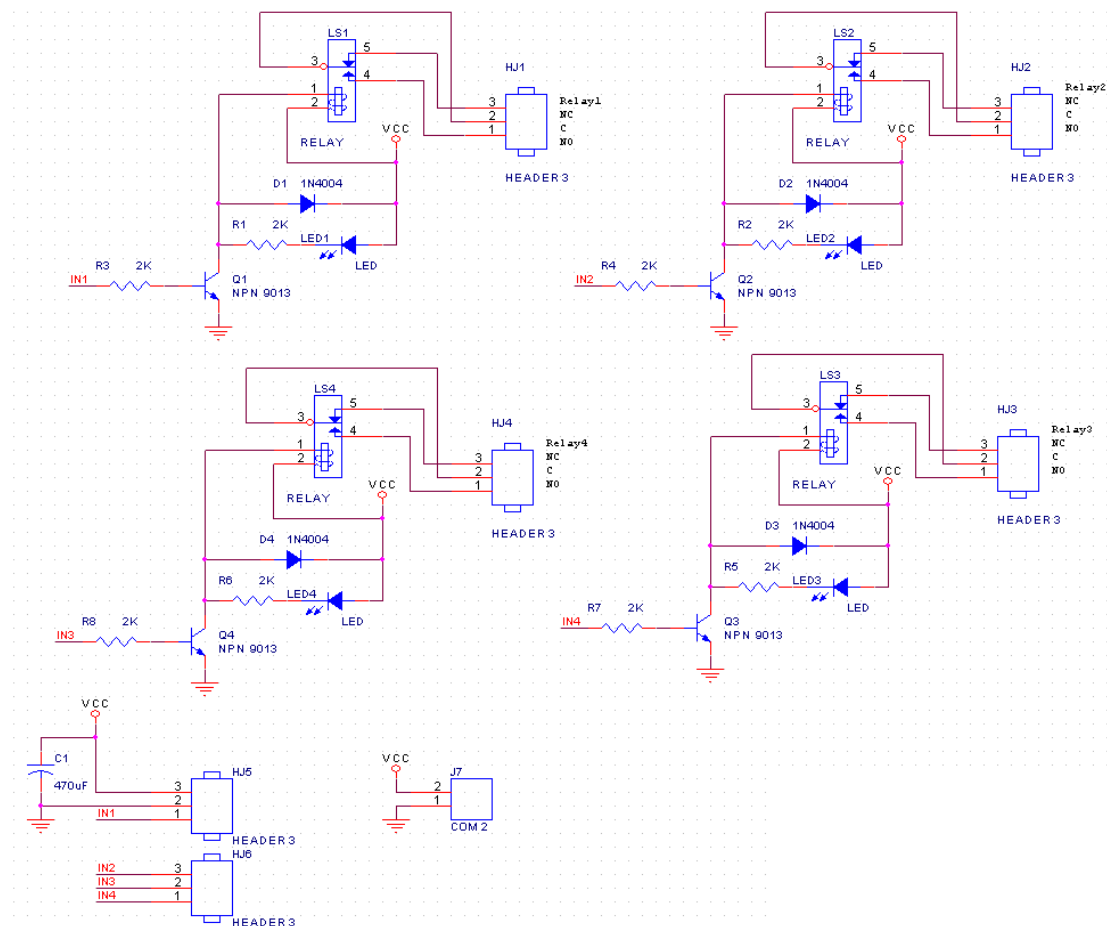


pcb8051@gmail.com

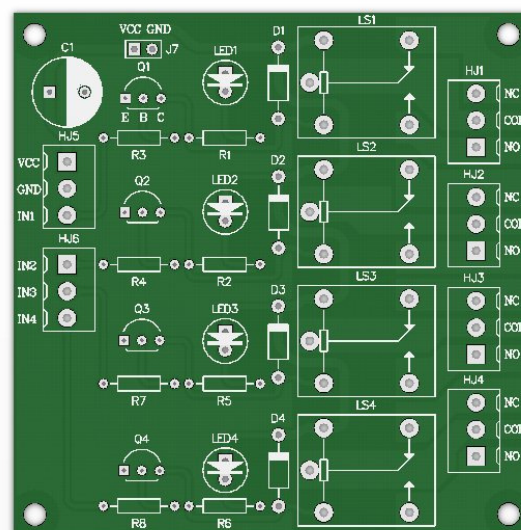
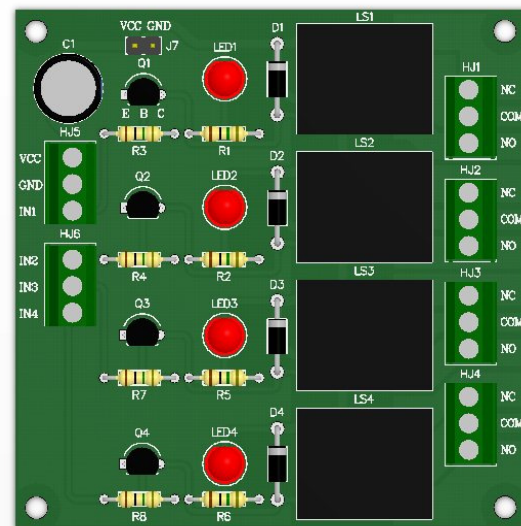
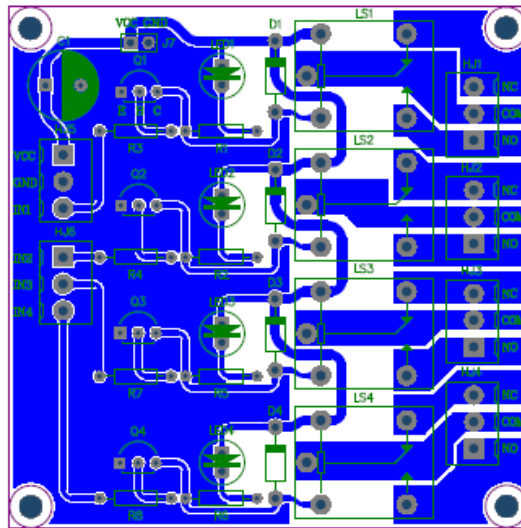
Description:

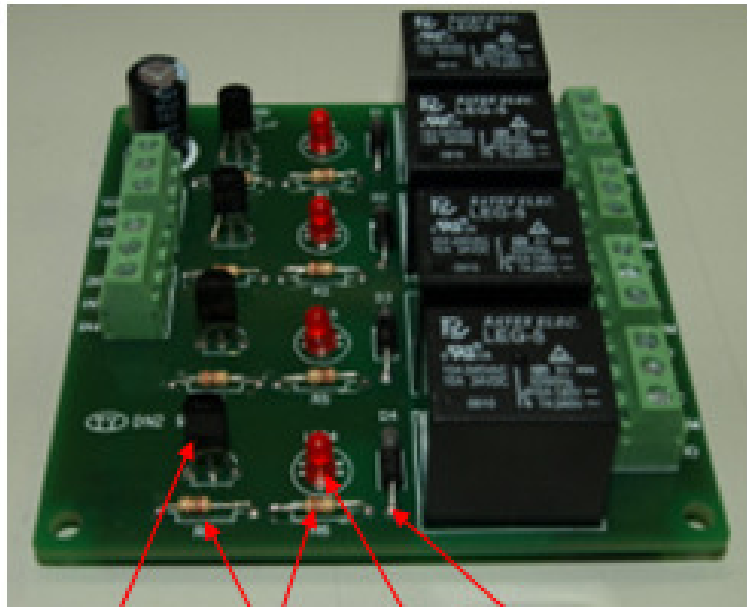
1. The Four Relays Board may be controlled directly by microcontroller (8051, AVR, PIC, DSP, ARM, MSP430, TTL logic).
2. Indication LED' s for Relay output status.
3. Screw Terminal Blocks for Relay outputs and inputs.
4. Input voltage (between "IN" and "GND"): 0V – 0.7V (Relay is OFF); 0.7V – 3V (unknown state); 3V – 15V (Relay is ON).
5. The Relays Circuit Board build in 5-Volt Relay, and each one needs 72mA Driver Current.
6. The required power is 5V DC (minimum current 300mA).
7. The Relay Board needs to be assembled and soldered by yourself.

Device circuit:



Device PCB & outline:

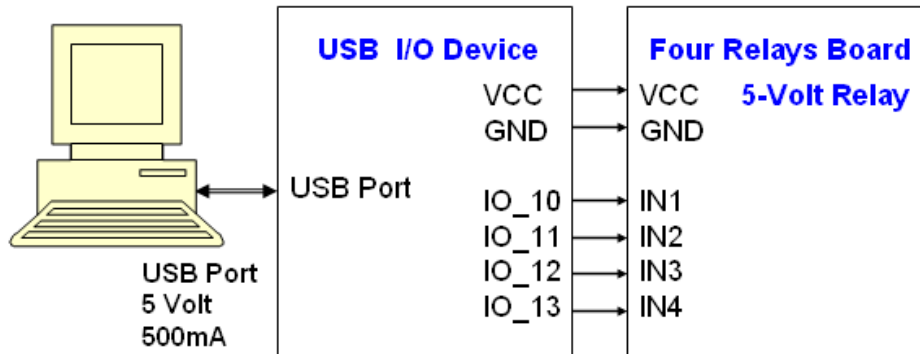




NPN 9013 2K ohm LED 1N4004

Application:

The USB Port of computers can provide 5 Volt and maximum 500mA current. The Relays Circuit Board build in 5-Volt Relay, and each one needs 72mA Driver Current, so the Four Relays Circuit Board total needs 288mA Driver Current. So it can provide 5 Volt directly by the USB I/O Device to drive the Four Relays Circuit Board.



FEATURES

- 10A cube relay
- 1 Form C (1PDT) contact arrangement
- Plastic material applied in high temperature and better chemical solution.
- Sealed type for washing procedure
- Using at home appliances, office machines, audio equipment, coffee pot , control units, etc.



UL FILE NO. : E126157
CUL FILE NO. : E126157
TUV FILE NO. : R9754097

ORDERING INFORMATION

LEG 12
1 2

1. Type
2. Coil Nominal Voltage

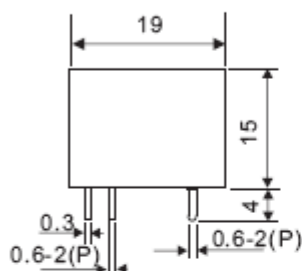
COIL DATA(0.36W, at 25°C)

Coil Nominal Voltage (VDC)	Resistance Tol.±10% (Ohms)	Nominal Current (mA)	Maximum Pick Up Voltage (V)	Minimum Drop Out Voltage (V)
3	25	120	2.1	0.3
5	70	72	3.5	0.5
6	100	60	4.2	0.6
9	225	40	6.3	0.9
12	400	30	8.4	1.2
24	1,600	15	16.8	2.4
48	6,400	7.5	33.6	4.8

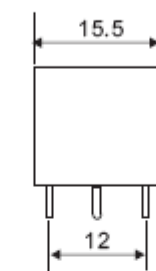
CONTACT RATING

UL	Resistive (Cos.θ = 1)	AC 240V / DC 24V	10A
	Inductive (Cos.θ = 0.4)	AC 240V	5A
TUV	Resistive (Cos.θ = 1)	AC 120V	10A
		AC 240V / DC 24V	7A
	Inductive (Cos.θ = 0.4)	AC 240V	3A

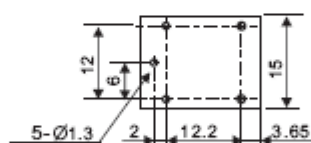
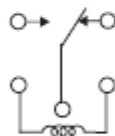
DIMENSIONS(±0.2mm)



WIRING DIAGRAM
(BOTTOM VIEW)



P.C.B LAYOUT
(BOTTOM VIEW)



GENERAL DATA

Insulation Resistance	100 MΩ Min. (DC 500V)
Dielectric Strength	750 VAC, 50/60Hz between contact.
	1,500 VAC, 50/60Hz between all elements.
Contact Material	Silver- Cadmium Oxide as standard(Ag alloy).
Contact Resistance	100 milliohms max. (initial value)
Shock Resistance	Malfunction: 10G(11ms) ; Destructive: 100G(6ms)
Vibration Resistance	Malfunction: 10 to 55 Hz. at Double Amplitude of 1.5 mm
	Destructive: 10 to 55 Hz. at Double Amplitude of 1.5 mm
Operation Time	8 ms max.
Release Time	5 ms max.
Temperature Range	- 25°C ~ + 60°C
Expected Life	With operation rate 30/min.
	Mechanical - 10,000,000 operations min.
	Electrical - 100,000 operations min. at rated load.
Weight	9 grams