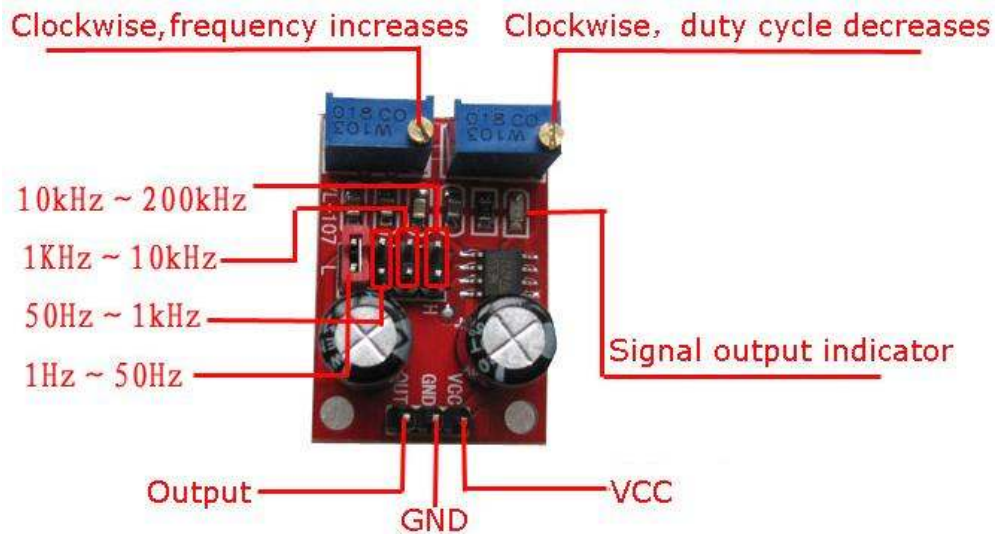


NE555 Pulse Frequency Duty Cycle Adjustable Module



Features:

- Size: 31mm * 22mm;
- Main chip: NE555;
- Input Voltage: 5V-15VDC. when power supply is 5V , the output current can be 15MA around;when 12V power supply, the output current can 35MA around;
- Input current: $\geq 100\text{MA}$
- Output amplitude: 4.2V V-PP to 11.4V V-PP. (Different input voltage, the output amplitude will be different)
- Maximum output current: $\geq 15\text{MA}$ (5V power supply, V-PP greater than 50%), $\geq 35\text{MA}$ (12V power supply, V-PP greater than 50%)
- Output with LED indication(low level ,LED will on; high level,LED will off;low frequency, the LED flashes);
- The output frequency range is selectable:
LF file: 1Hz ~ 50Hz
IF file: 50Hz ~ 1kHz
High-frequency file: 1KHz ~ 10kHz
HF file: 10kHz ~ 200kHz
- The output duty cycle can fine-tune; duty cycle and frequency is not separately adjustable; adjusting the duty cycle will change the frequency;



The output frequency is adjustable:

- Period $T = 0.7 (R_A + 2 R_B) C$
- R_A, R_B is 0-10K adjustable;
- Low profile when $C = 0.001\mu F$;
- IF stalls $C = 0.1\mu F$;
- High-frequency file $C = 1\mu F$;
- HF stalls $C = 100\mu F$;
- so buyers can calculate the frequency of the waveform.

Application:

- As a square wave signal generator, generates a square wave signal used for experimental development.
- Used to drive a stepper motor for generating a square wave drive signal.
- Generate adjustable pulse for MCU.
- Generate adjustable pulse, to control circuitry associated.