NE555 Pulse Frequency Module

The NE555 Pulse Frequency Module is used to drive a stepper motor for generating a square wave drive signal. As a square wave signal generator, it generates a square wave signal used for experimental development. Generate adjustable pulse for MCU and to control circuitry.

Specifications:

Input Voltage: 5V to 15VDC
Current output: 15mA to 35mA
Input Current: >=100mA
Output Amplitude: 4.2V V-pp to 11.4 V-pp
(Different input voltage, the output amplitude will be different)
Output with LED indication: Low level, LED will ON; High Level, LED will off, low frequency, the LED flashes
PCB Dimensions: 22 mm x 31 mm

The **output requency 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;

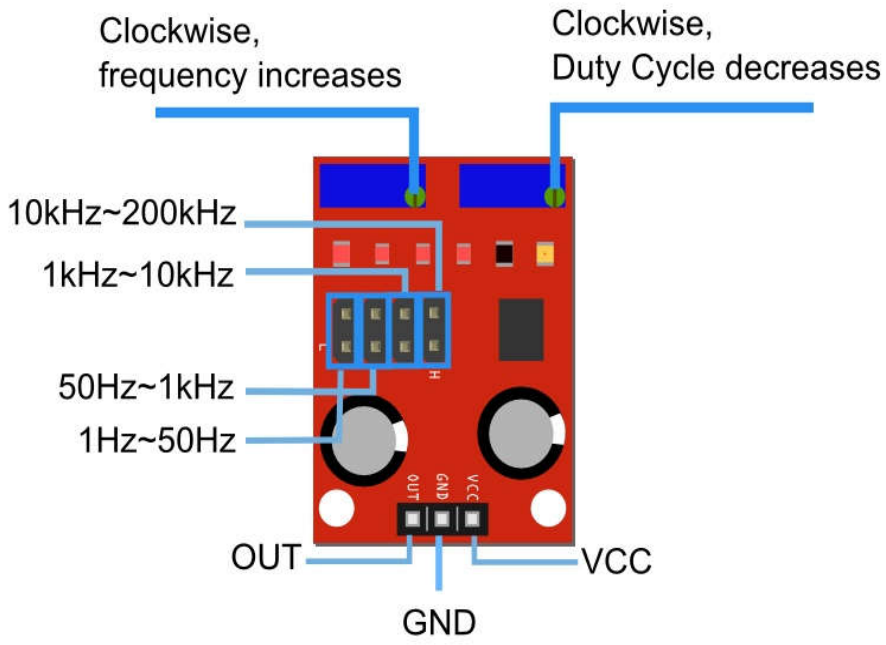

Figure 1. Pinouts of Pulse Frequency module.

The **output frequency** is adjustable:

Period T = 0.7 (RA +2 RB) C
RA, RB is 0-10K adjustable;
Low profile when C = 0.001UF;
IF stalls C = 0.1UF;
High-frequency file C = 1UF;
HF stalls C = 100UF;

so buyers can calculate the frequency of the waveform.