

NE555 Pulse Frequency Square Wave Signal Generator Module Stepper Motor Driver

Description:

1. Size : 3.1cm * 2.2cm
2. Main chip : NE555;
3. Input voltage : 5V-15VDC. When 5V supply, the output current can be at around 15mA; when the 12V supply, the output current can be about 35mA;
4. input current : 100mA
5. The output amplitude : 4.2V V-PP to 11.4V V-PP (different depending on the input voltage , the output amplitude will be different)
6. The maximum output current : 15mA (5V power supply , V-PP greater than 50%), 35mA (12V power supply , V-PP greater than 50%)

Advantages:

1. The output with LED indication, there is no output straightforward (low level LED volume, high LED off frequency is relatively low LED flashes);
2. The output frequency range of grades available, the output frequency more continuously adjustable;
Low Frequency: 1Hz ~ 50Hz
Medium Frequency: 50Hz ~ 1kHz
Medium and High frequency: 1KHz ~ 10kHz
High frequency: 10kHz ~ 200kHz
3. The output duty cycle can be fine-tuning, duty cycle and frequency are not adjustable , adjust the duty cycle will change the frequency;
The output frequency is adjustable;
Cycle $T = 0.7 (RA + 2 RB) C$
RA, RB is 0-10K adjustable ;
Low frequencies $C = 0.001\mu F$;
Medium Frequency $C = 0.1\mu F$;
Medium & High frequency file $C = 1\mu F$;
High-frequency gear $C = 100\mu F$,

Application:

1. Be used as a square wave signal generator generates a square wave signal for experimental development use.
2. Drives the stepping motor for generating a square wave drive signal.
3. Adjustable pulse generated for MCU to use.
4. Adjustable pulse generating control-related circuit.