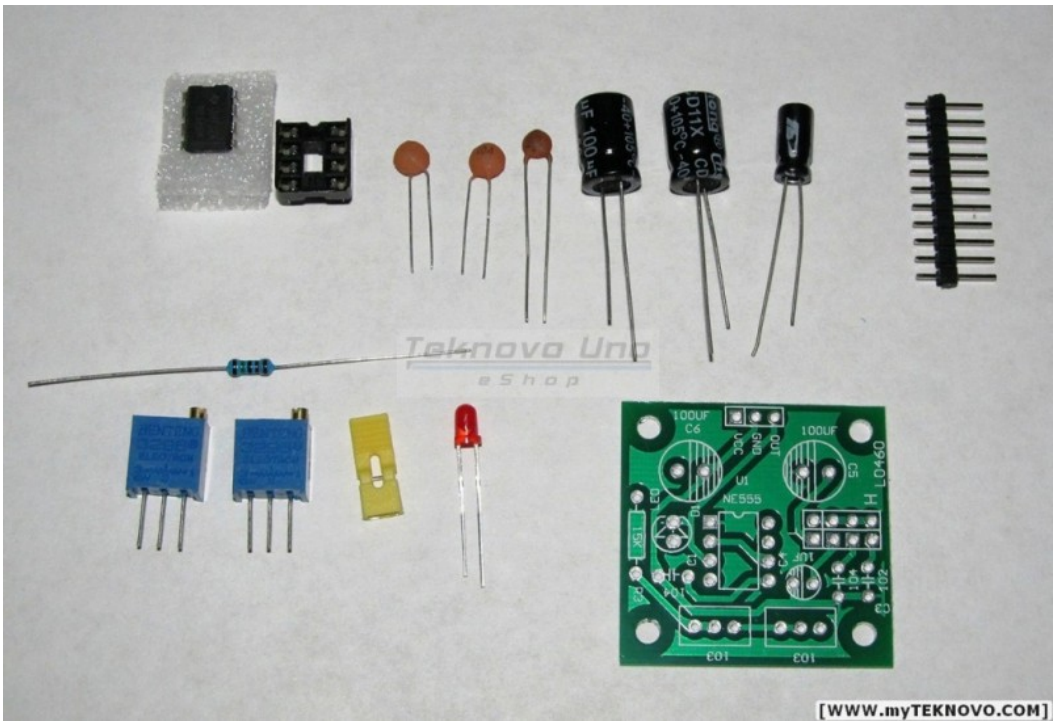
NE555/LM555 Adjustable Square Wave Pulse Generator:



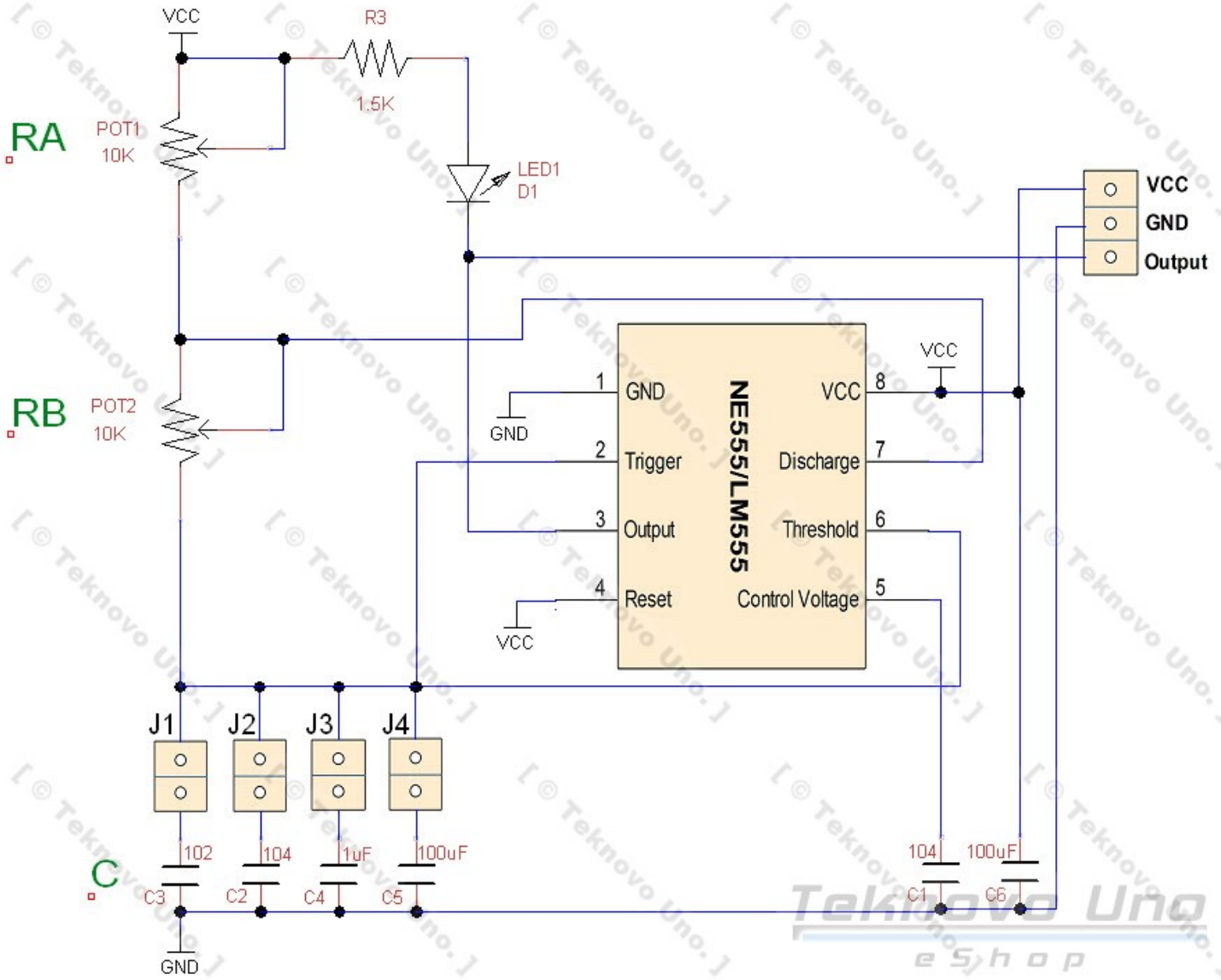
Features:

- ✓ Operational voltage: 5V-15V Supply.
- ✓ Maximum trigger current at 5V supply = 15 mA.
- ✓ Maximum trigger current at 12V supply = 35 mA.
- ✓ Output amplitude: 4.2 vpp to 11.4 vpp (dependent on supply voltage).
- ✓ Suitable for Square Wave Generation of up to 200 kHz.
- ✓ Selectable frequency range by jumpers and adjustable by potentiometers.
- ✓ Low current operation.
- ✓ PCB size 1.38” x 1.40”.

Please Note*:

*Soldering is required.
*Soldering difficulty level: easy.

Circuit Diagram:



The output frequency (f) is adjustable and can be calculated by:

$$T = 0.7 * (RA + 2RB) * C$$

$$f = 1/T$$

RA and RB are the 10 KΩ potentiometers. C is the selectable capacitor C3, C2, C4, or C5.

*Important: Please read note on page-3.

***Note:** The design of the NE555 square-wave-generator is as shown in the electronic schematic of page-2. The electronic-parts' color and style may differ from that of image in page-1 (PCB as well). Nonetheless, the functionality of the circuit schematic shown in page-2 is the same. If any questions, please ask, thank you for your support.