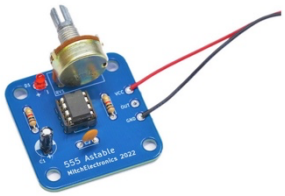
MitchElectronics Ltd.

555 ASTABLE

Electronic Kit | Data Sheet

PRODUCT IMAGE	SCAN FOR INSTRUCTIONS PAGE	SCAN FOR RESOURCE PAGE



MANUFACTURER	MitchElectronics
COUNTRY OF ORIGIN	United Kingdom
ROHS / REACH COMPLIANT	Yes
PRODUCT DESCRIPTION	The 555 timer is arguably the most famous integrated circuit ever invented. Created by Hans Camenzind in 1971 for Signetics (now NXP), the 555 timer is still widely used and in production. These devices are so common that over 1 billion are made each year. But what makes the 555 timer so useful? Why is this tiny little 8-pin device still being mass-produced despite being over 40 years old? In this kit, you will be making a 555 astable circuit which is one of the most common uses for this chip. This kit is available in either single packs, group packs, or class packs with larger packs having a bigger discount per kit.

PRODUCT SPECIFICATION:

- Component Count : 10
- Battery Powered? : Yes, 9V PP3
- Operating Voltage : 5V to 16V
- Operating Frequency : 0.7Hz to 144Hz
- Output Voltage : 0V to VIN
- Output Current : up to 150mA
- Dimensions (PCB) : 32mm x 30mm
- Mounting Holes : No
- Prebuilt : No - Kit form
- Batteries Not Included

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PARTS INCLUDED:

- 1 x 8 DIP Socket
- 1 x 555 IC
- 1 x 100nF Capacitor
- 1 x 10uF Capacitor
- 2 x 1K Resistor
- 1 x 100K Potentiometer
- 1 x 3mm Red LED
- 1 x PP3 Connector
- 1 x PCB

APPLICATIONS

The 555 Astable Kit is highly ideal for use in the classroom as it is a small kit that can be constructed in under an hour. It can be used as a teaching aid for learning how to construct electronic kits as well as an example of how the 555 astable oscillator works. The potentiometer provided with the kit has a nut that allows for mounting to a plinth for design and technology-related courses while the LED can easily be mounted remotely from the PCB and wires used to connect the LED to its associated pads.

The 555 Astable Kit is also ideal for use as a stand-alone module for projects and applications including fake car alarm signals, signal indication, low-frequency gate control for audio, and as a clock source for digital logic circuits. If you require a one-shot signal then the 555 monostable is an ideal alternative to this product and the Voltage Controlled Oscillator Kit is more ideal for applications requiring higher frequency waveforms of varying types.

KIT INSTRUCTIONS

https://mitchelectronics.co.uk/resources/555-astable-kit-instructions/

ELECTRONICS CONSTRUCTION MANUAL

https://www.mitchelectronics.co.uk/documents/electronicsConstructionManual.pdf

NOTES

Note that product specifics such as output frequency depend on the tolerance of the components. The numbers provided here are an approximation only. Also take note that the estimated delivery is not guaranteed (unless special delivery is chosen) and free delivery has a maximum waiting time of two weeks. Any product that is returned which is built using lead solder is ineligible for a refund.

All parts sold by MitchElectronics are compliant with RoHS and REACH directives which ensure that they can be used in commercial environments as well as complying with environmental laws.