MitchElectronics Ltd.

555 MONOSTABLE

Electronic Kit | Data Sheet

PRODUCT IMAGE	SCAN FOR INSTRUCTIONS PAGE	SCAN FOR RESOURCE PAGE
e Parameter		

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 be mass produced despite being over 40 years old? In this kit you will be making a 555 monostable circuit which is one of the most common uses for this chip.

PRODUCT SPECIFICATION:

- Component Count : 12
- Battery Powered? : Yes, 9V PP3
- Operating Voltage : 5V to 16V
- Operating Frequency : 0.01s to 1.1s
- Output Voltage : 0V to VIN

- Output Current : up to 150mA
- Dimensions (PCB) : 35mm x 29mm
- Mounting Holes : No
- Prebuilt : No Kit form
- Batteries Not Included

MitchElectronics Ltd.

PARTS INCLUDED:

- 1 x 8 DIP Socket
- 1 x 555 IC
- 1 x 100nF Capacitor
- 1 x 10uF Capacitor
- 3 x 1K Resistor

- 1 x Tactile Switch
- 1 x 100K Potentiometer
- 1 x 3mm Red LED
- 1 x PP3 Connector
- 1 x PCB

APPLICATIONS

The 555 monostable circuit is an ideal project for use in the classroom thanks to its simple construction, high-quality PCB, and can be built in under an hour. The kit can be used to demonstrate how to construct electronic circuits, proper soldering techniques, learn about the 555 timer IC, and how to configure the 555 to work as a monostable. The 555 Monostable kit can also be used in conjunction with design and technology courses as the potentiometer is supplied with a nut which makes this project mountable to a plinth. This kit can also be used as either a standalone product or as a module to a larger system such as a water tank filler, one-shot control signal, automatic light for outside, and as a reset signal for digital electronic systems. If a blinking circuit is required the 555 Astable kit makes a good alternative as the astable always switches between two states.

KIT INSTRUCTIONS

https://mitchelectronics.co.uk/resources/555-monostable-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.