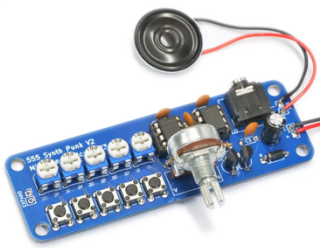
MitchElectronics Ltd.

555 SYNTH PUNK

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 Synth Punk kit is an electronic synthesiser that takes inspiration from the famous Atari Punk Console circuit. Each button can be adjusted via a potentiometer to produce a different tone, an the larger potentiometer can be used to create stepped sounds. Powered from a single 9V PP3, this kit contains everything you need to explore your inner musician, and the 3.5mm audio jack lets you connect your 555 Synth Punk to external speakers for use in live performances (a simple resistor divider can be used here to also allow for recording to microphone ports). The 555 Synth Punk also has an additional expansion port that lets you connect additional potentiometer/switch panels to expand the number of tone buttons. This port can also be used with other resistive elements to create sounds based on movement, temperature changes, and even light.

PRODUCT SPECIFICATION:

- Component Count: 27
- Battery Powered: Yes – PP3 9V
- Operating Voltage: 5V to 16V
- Operating Frequency: N/A
- Dimensions (PCB): 94mm x 31mm
- Mounting Holes: Yes – 4 x M4 (86mm x 22mm)
- Prebuilt: No – Kit form
- Batteries Not Included

MitchElectronics Ltd.

PARTS INCLUDED:

- 2 x 8 DIP Socket
- 2 x NE555
- 4 x 100nF Capacitor
- 1 x 100uF Capacitor
- 2 x 1KΩ Resistor
- 5 x 10KΩ Potentiometer
- 1 x 100KΩ Potentiometer
- 1 x 1N5817 Diode
- 1 x 2N3904
- 1 x 2N3906
- 1 x Speaker
- 5 x Tactile Switch
- 1 x 3.5mm Phono Socket
- 1 x Black Wire
- 1 x Red Wire
- 1 x PP3 Connector

APPLICATIONS

The 555 Synth Kit is excellent for those needing an electronic circuit capable of producing synthetic sounds, and the expander port enables more advanced sounds to be produced. This kit is also ideal for those looking to learn about electronic circuits and how the 555 timer works in both astable and monostable configurations. Finally, this kit is suitable for use in classrooms where students can learn how to solder electronic components while simultaneously building an engaging project.

KIT INSTRUCTIONS

https://mitchelectronics.co.uk/resources/555-synth-punk-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.