MitchElectronics Ltd.

PWM GENERATOR

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	PWM Signals are those that have variable duty cycles and are found in many thousands of circuits. Just a few examples of how PWM signals can be used include Digital-To-Analog conversion, high-efficiency power controllers, servo control, timing, and much more. This kit will allow you to build a simple PWM generator that runs on voltages between 5V-28V and has two potentiometers for adjusting both the frequency of the PWM wave and the duty cycle between 0% and 100%.

PRODUCT SPECIFICATION:

- Component Count: 18
- Battery Powered?: No
- Operating Voltage: 5V to 20V
- Operating Frequency: Variable
- Output Voltage: Square (0V to VCC – 1.5V)
- Output Current : Max 20mA
- Dimensions (PCB) : 46mm x 29mm
- Mounting Holes: Yes
- Prebuilt: No – Kit form
- Batteries Not Included

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PARTS INCLUDED:

- 2 x 8 DIP Socket
- 2 x LM358
- 3 x 100nF Capacitors
- 1 x 47K Resistor
- 3 x 100K Resistors
- 2 x 100K Potentiometer
- 1 x Red Wire
- 1 x Blue Wire
- 2 x Black Wire
- 1 x PCB

APPLICATIONS

The PWM Generator is an ideal kit for those teaching op-amps and the various circuit configurations they can be used. Furthermore, the kit also teaches about positive feedback and how to convert a triangular wave into a PWM signal. The small component count combined with the two large potentiometers makes an ideal product for a DIY function generator that is to be mounted inside an enclosure, and the construction time of less than an hour is also ideal for use in the classroom.

KIT INSTRUCTIONS

https://mitchelectronics.co.uk/resources/pwm-generator-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.