MitchElectronics Ltd.

SIMPLE POWER MODULE SMD TRAINER

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	This kit is part of the SMD Trainer range that only uses SMD parts to test out your soldering skills. This kit provides all the parts needed to create a dual power supply that provides 5V and 3.3V for use in other projects, and each power output is fused for added protection. Before making this kit, be sure to read our SMD soldering guide found in our resources page, and pay extra attention when positioning components because de-soldering SMD parts can be extremely challenging.

PRODUCT SPECIFICATION:

- Component Count: 12
- Battery Powered: Yes
- Operating Voltage: 7V to 16V
- Operating Frequency: N/A
- Dimensions (PCB): 29mm x 19mm
- Mounting Holes: 4 x M2 (25mm x 15mm)
- Prebuilt: No Kit form
- Batteries Not Included

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PARTS INCLUDED:

- 1 x AMS1117 3.3V
- 1 x AMS1117 5V
- 2 x 10µF Capacitor
- 2 x 100nF Capacitor

- 2 x 10nF Capacitor
- 2 x Poly Fuse
- 1 x 1N5817 Diode
- 1 x 4 Way Pin Header

APPLICATIONS

The Simple Power Module kit is ideal for providing regulated power to a breadboard, and the dual 5V/3.3V output makes it applicable where mixed power rail voltages are needed. This is especially true for newer devices such as the ESP32 and Raspberry Pi Pico devices which solely run from. 3.3V. The small size of this module also makes it ideal for use in drones and other small devices that need a regulated power source. Finally, this kit is excellent for those learning to practice how to solder.

KIT INSTRUCTIONS

https://mitchelectronics.co.uk/resources/simple-power-module-smd-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.