Usb Electronic Kits



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Dc to DC converter



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DC to **DC** converter

Description

This is high performance DC-DC Step Down Ajustable Power Supply Module. Based on well know LM2756 Switching Regulator.

Specificantions:

- -Input voltage range: 4 V-40 V
- -Output voltage range: 1.25 V-35 V
- -Output current: 3 A(MAX)-need to add heat sink
- -Conversion efficiency: Up to 92% (output voltage higher,
- the higher the efficiency)
- -Switching Frequency: 150KHz
- -Rectifier: Non-Synchronous Rectification
- -Module Properties: Non-isolated step-down module (buck)
- -Short circuit protection: current limiting, since the recovery
- -Load regulation: ± 0.5%
- -Voltage regulation: ± 0.5%
- -Dynamic response speed: 5% 200uS
- -Mode of connection:welding
- -Size:25mm*50mm (2 inch * 1 inch)

The LM2576 series of regulators are monolithic integrated circuits ideally suited for easy and convenient design of a step-down switching regulator (buck converter). All circuits of this series are capable of driving a 3.0 A load

with excellent line and load regulation. These devices are available in fixed

output voltages of 3.3 V, 5.0 V, 12 V, 15 V, and an adjustable output version.

These regulators were designed to minimize the number of external

components to simplify the power supply design. Standard series of

inductors optimized for use with the LM2576 are offered by several different

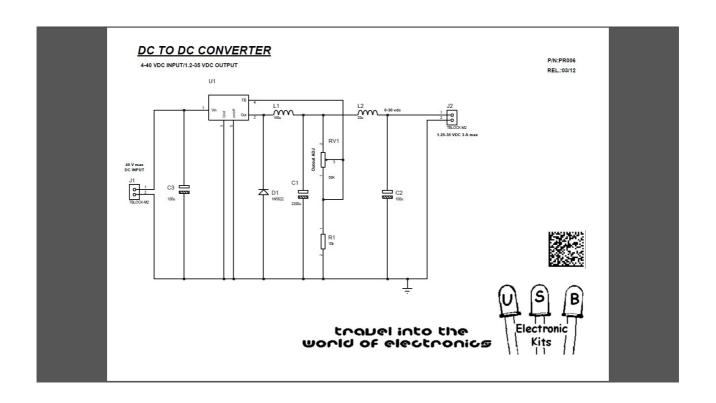
inductor manufacturers.

Applications

- -DIY mobile power supply
- -Step-down charger
- -Electronic equipment charger
- -System preceding stage charger

Common parts Datasheets and schematics

The kits use only familiar electronic components! General purpose transistors and op-amps and generally "found everywhere" electronic parts!





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