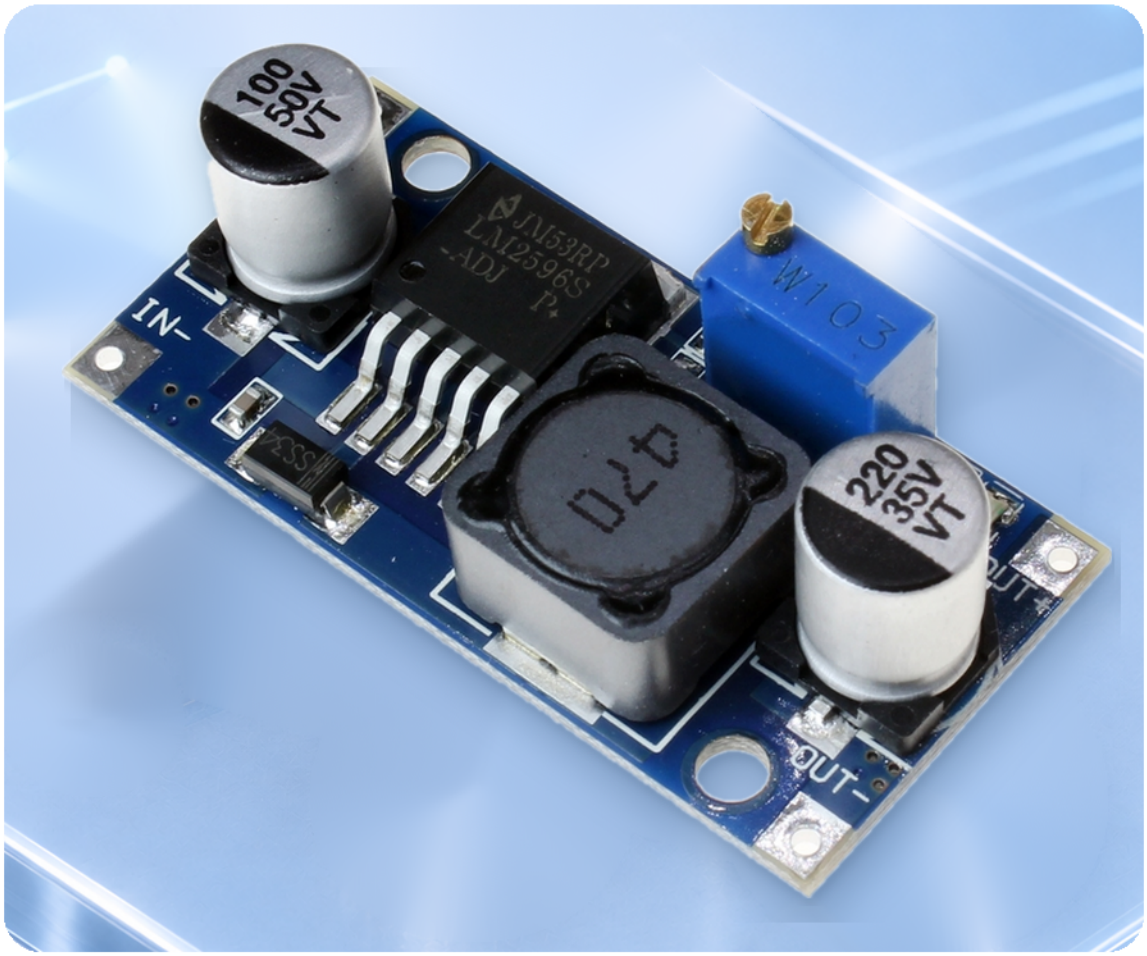
فایل دیتاشیت محصول

LM2596S

ماژول مبدل کاهنده ولتاژ

STEP-DOWN DC-DC CONVERTER



بازدهی تبدیل	حداکثر جریان خروجی	ولتاژ خروجی	ولتاژ ورودی
تا 92٪	3A*	قابل تنظیم 1.5–35 V	3.2–40 VDC

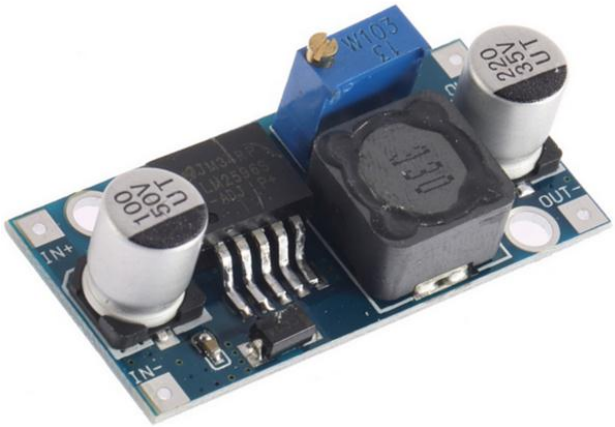
SKU: MDU-1050

توجه: جریان ۳ آمپر به خنک‌کاری با هیت‌سینک نیاز دارد؛ ولتاژ ورودی باید از خروجی بیشتر باشد.

Data Specs

LM2596S Step Down 3A DC-DC Converter

LM2596S DC-DC step down converter module, adjustable +1.23Vdc to 35Vdc output 3A maximum. Ideal for battery operated projects requiring a regulated power supply.



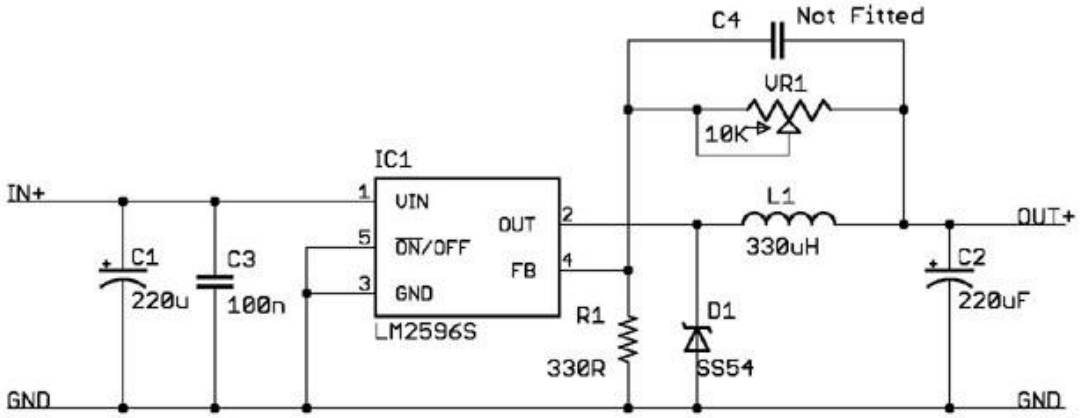
SKU: MDU-1050

Brief Data:

- Input Voltage: 3.2V~40Vdc.
- Output Voltage: 1.5~35V (continuously adjustable)
- Output current: 3A Max (heat sink required).
- Conversion efficiency: Up to 92%.
- Switching Frequency: 150KHz.
- Rectifier: Non-Synchronous Rectification
- Module Properties: Non-isolated step-down module (buck converter)
- Short circuit protection: current limiting.
- Operating temperature: Industrial grade (-40 ℃ to +85 ℃) (output power 10W or less)
- Load regulation: ± 0.5%
- Voltage regulation: ± 0.5%
- Dynamic response speed: 5% 200uS

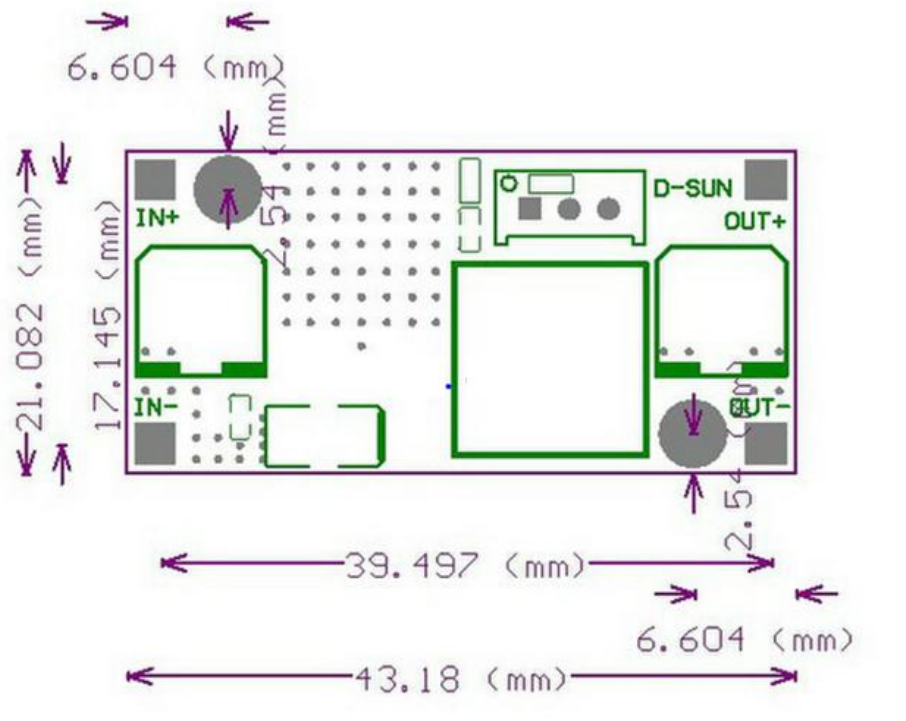
Note that this is step down converter module; input voltage must be higher than output voltage.

Schematic:



Board Dimension:

Unit: mm



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