DC-DC

$5.30

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Introduction

Multiple-output DC–DC converters are essential in a multitude of applications where different DC output voltages are required.

This DC-DC step-down voltage power module converts 7.5V~30V input to an output of 3.3V/5V/9V/12V (default to 5V), which can be selected by short-circuiting the corresponding pads on the back. It withstands up to 5A load current with suitable heat dissipation and has

70℃ over-temperature and overload protections. Besides, there is an onboard LED indicator that shows a solid red light when everything works fine and goes out when the protection mechanism is triggered and the voltage automatically drops to 0.1V.

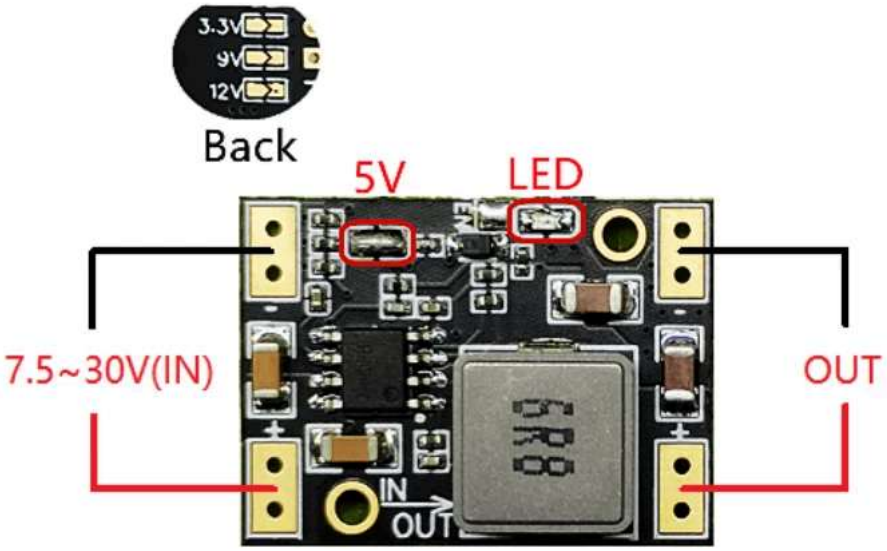
The multi-voltage buck power module can be used in power control systems for LEDs, robots, drones, servos, low-power motors, and so on.

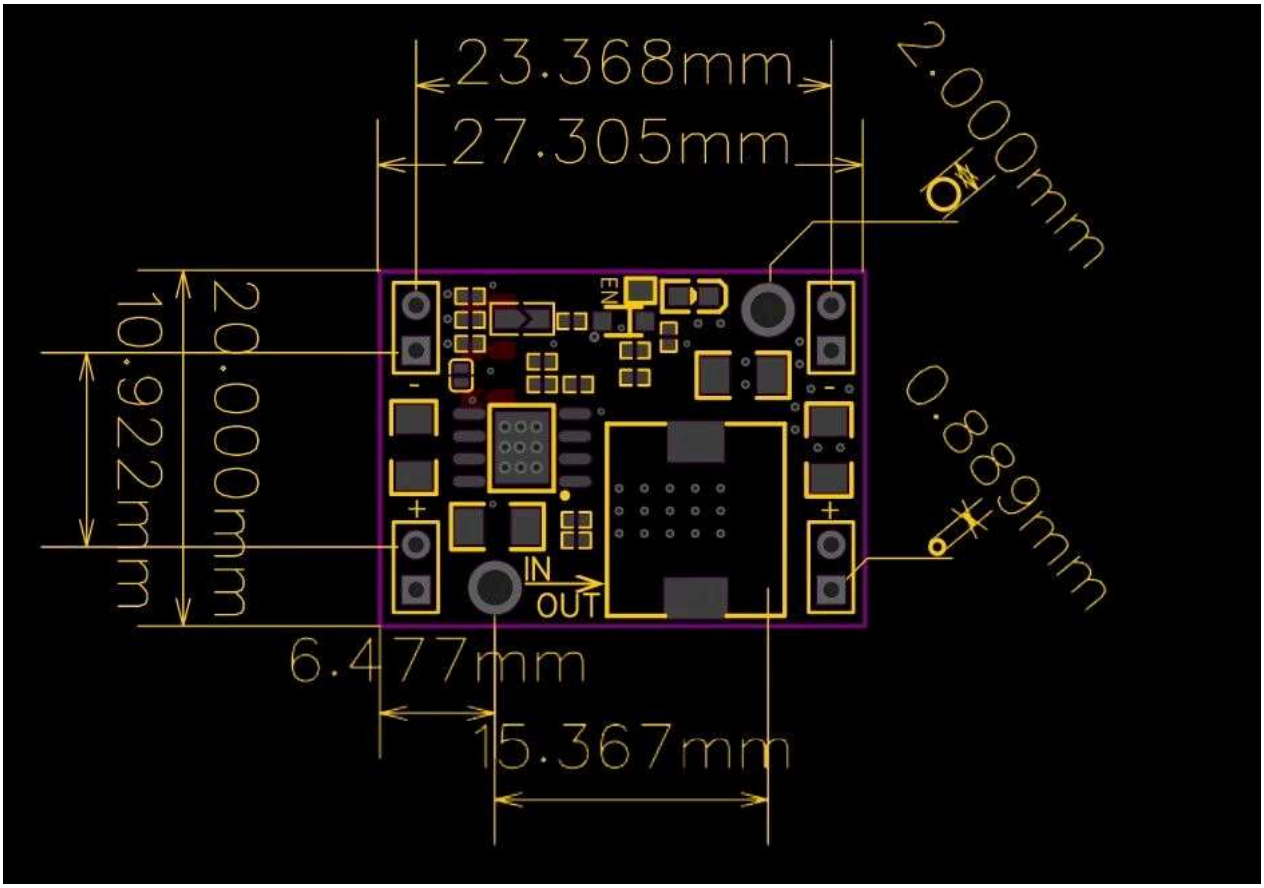
Instruction

This module outputs 5V by default and the corresponding 5V solder pad is short-circuited. To output other voltages, for instance, 3.3V, please disconnect the 5V pad and short-circuit the 3.3V solder pad.

Note: Since this is a step-down converter, the input voltage should be larger than the output, and it works better with a voltage difference of 2V and above.

Note: The output parameters are measured at 25 ℃, and the heat dissipation (heat sinks) is required for continuous large current load.





Dimension

Features

- Converts 7.5V~30V input to an output of 3.3V/5V/9V/12V
- With suitable heat dissipation
- With 70℃ over-temperature and overload protections

Applications

- Power control systems

Specification

- Input Voltage: 7.5V~30V (24V below is recommended)
- Rated Output Parameters (Heat dissipation not required)

3.3V/0~3A 5V/0~3A
9V/0~2.5A 12V/0~3A

- Maximum Output Parameters (Heat dissipation required)

3.3V/5A (16.5W) 5V/5A (25W)
9V/3.5A (31.5W) 12V/3.5A (42W)

- Low Ripple: 30mV
- Soldering Hole Pitch: 2.54mm (can solder pin headers)
- Dimension: 2.7cm*2cm(length*width)/1.06*0.79"

Shipping List

- DC-DC Multi-voltage Output Buck Power Module (3.3V/5V/9V/12V) x1

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