

## NAM:LM2596 Step-Down Voltage Regulator



Size: 66mm \* 36mm \* 14mm (L x W x H)

Weight: 23g (including packaging) Color: Blue Package: static bag

### Applications:

This module can be applied in the field of blood pressure is higher than the output voltage of the input voltage, such as batteries, power transformers, DIY adjustable power supply, 24V car T of the power supply, industrial equipment buck, 12V turn 3.3V, 12V turn 5V, 24V turn 5V, 24V switch 12V, 36V 24V turn and so on.

### Features:

With a voltage meter display, voltmeter error of  $\pm 0.1V$ , Range 4 ~ 40V. (Note: The input voltage is below 4V, the onboard voltage display table does not work)

Mass 5 \* 5 Touch the key to switch measuring input or output voltage, and has a light show which is being measured terminal voltage. The initial power-on default digital display input voltage and the input IN indicator lights; touch of a button, the digital display output voltage and the output OUT indicator lights. And to keep the final set, then turn off even

Voltmeter can be turned off, press the switch more than one second and less than 4 seconds, you can let go off. After voltmeter switch closed as long as the short press to open a voltmeter.

Input and output voltage measurement error than the standard function, press the switch more than 4 seconds, let go after entering voltage measurement error than the standard features, this time IN lights (calibration input), the digital display flashes compared with a positive value (factory parameter is 0.0) , then press the button to change the value (value in the range of -0.5 to 0.5, the unit is V), a positive number indicates upward calibration, negative number indicates downward calibration. After adjusting the input calibrated value side, long press the button more than 2 seconds, let go into the error correction output terminal, then OUT lights (calibration output terminal), and displays the same calibration value output terminal, adjustment method and the input, the whole good after comparing the output of the reference value, press the button more than 2 seconds, let go to save the set value and return to normal display voltage correction value is set to take effect immediately, and non-volatile. (With this feature, you can meet your requirements for higher accuracy)

5. The band terminals, no iron can also be easy to use, and retention wire terminal points

(Must be greater than the input voltage to output voltage is high 1v above)

6. The use of internal oscillation frequency 150KHz, which belongs to the second generation of switching voltage regulator, low power consumption, high efficiency

7. The input diode with protection, reverse polarity will not burn module

8. With overheat protection and short circuit protection (more than 15W, please enhance heat dissipation)

Input voltage

2.5V ~ 40V

The output voltage

1.25V ~ 37V (adjustable)

Output current

3A (max)

Conversion efficiency

92% (max)

Output ripple

<30mV

Switching Frequency

150KHz

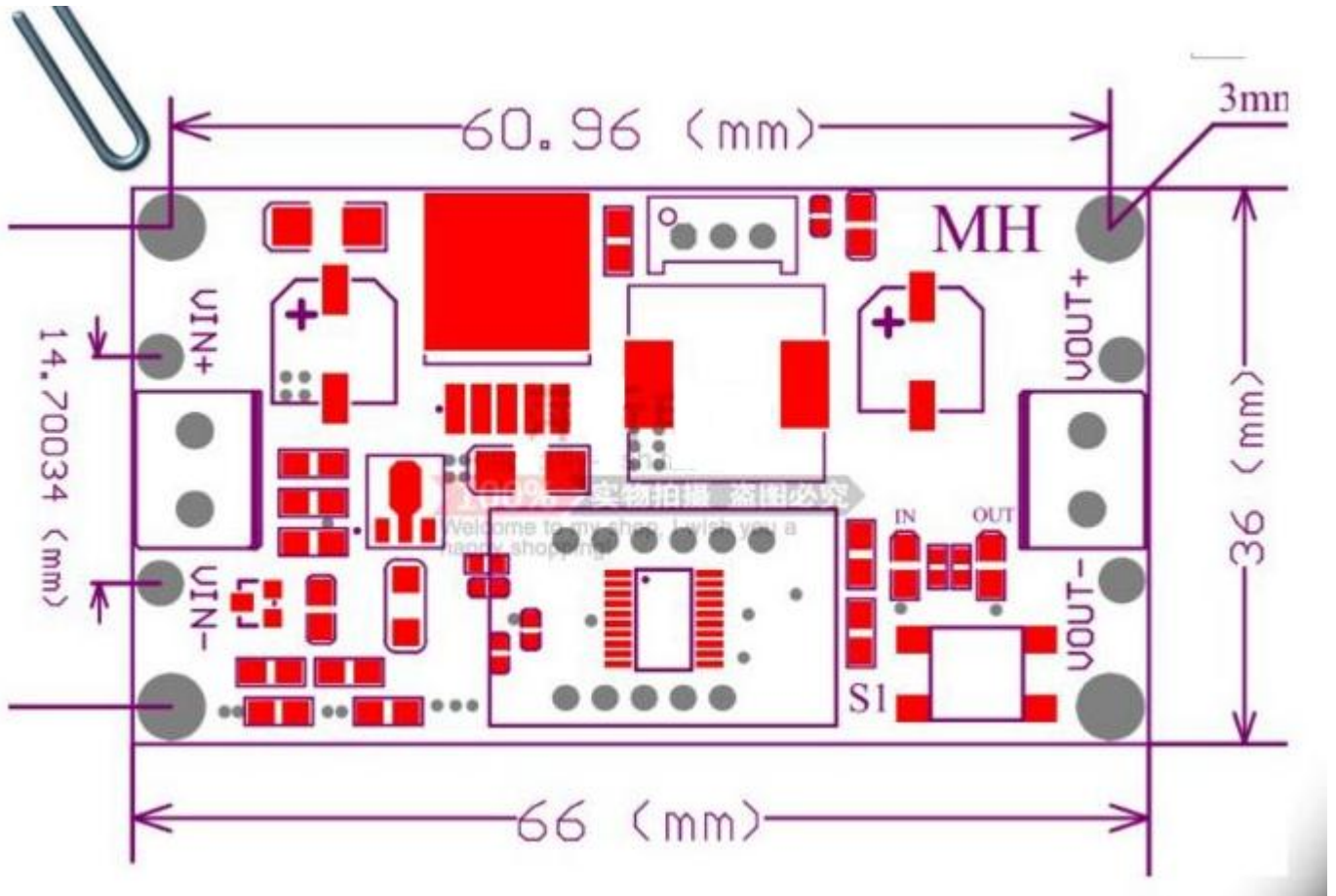
Operating temperature

-45 °C ~ + 85 °C

Precautions:

The maximum output current up to 3A, recommended operating current of about 2A, over 2A plus heat sink

When the output voltage can not be adjusted encountered, always with the input voltage is equal to this problem, first counterclockwise rotary potentiometer 10 laps or more, then you can use the module properly regulate the voltage. Because the step-down module factory default output voltage at 20V



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