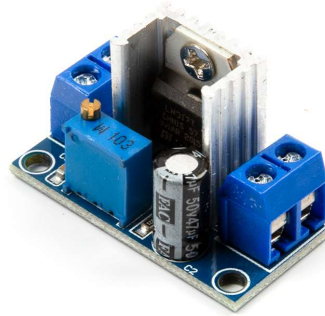


الحمادي للإلكترونيات
ALHAMMADI FOR ELECTRONICS



Module Introduction:

Name: Adjustable Linear Regulator

Output current: 1.5A (min), 2.2A (typical).

Input-output voltage difference (**VI-VO**): 40Vdc (large value).

Output adjustable voltage range: 1.2~37V

Operating temperature: -55°C to +150°C

Current output: 1.5A

Voltage input: 4.2 ~ 40 V

Operating temperature: 0°C ~ 125°C

Eigenfrequency: 100 (MHz).

Module size: 35.6(mm)x16.8(mm).

Input mode: VIN input positive stage, GND input negative pole

Output mode: VOUT output positive stage, GND output negative pole

High output current: Large output current = $3 / (\text{input voltage} - \text{output voltage})$.

Buyers need to know that because it is linear, the efficiency will not be very high, in order to improve the efficiency, there is a good input and output voltage difference of 3V. However, the large voltage difference between input and output should not exceed 30V, that is, the input-output $\leq 30V$, otherwise it is easy to burn out the module.

Since it is a linear step-down DC-DC circuit, the input voltage needs to be at least 3V higher than the output voltage to ensure the stability of the output voltage.

Input voltage: 40V-4.5V (the measured high limit of our store can reach 40V).

Adjustment method: first correctly connect the input power supply (between 40-4.5), and then use a multimeter to monitor the output voltage and adjust the potentiometer (generally turn to boost in time, turn down in counter-clockwise).

Tips: When adjusting the voltage, please pay attention to adjust the required voltage when the load is not added.

The following are the measured voltage and current parameters of several commonly used voltage points tested by our store for 3 hours under load, which can be used for reference:

Scope of use:

1) Adjustable three-terminal voltage regulator module, which can replace all three-terminal voltage regulator modules such as 7805, 7806, 7809, 7812, 7824, etc.

1). Vehicle stabilized power supply, only need to terminate the input of this module to the car cigarette lighter for power supply, you can adjust the potentiometer,

The output voltage can be adjusted from 1.25V to 30V for your mobile phone, MP3, MP4, PSP charging and many other devices, which is very simple and convenient.

3). Power your electronic devices, when your equipment needs 1.25-60V power supply, but you only have 12V or 24V battery power supply in your hand now, use our module to directly reduce the voltage by 1.25-30V, solve your troubles.

4). System pre-power supply, when you are doing a project when the input power supply voltage is lower than the voltage you need (1.25V-30V), then you choose our module will be your good choice.

Frequently Asked Questions and Answers:

Can I adjust the voltage myself?

Answer: Yes, the blue one is the adjustable potentiometer, no-load debugging, and it is OK to measure the range you want with a multimeter

Does this power module have short-circuit protection? Will it burn out if I accidentally enter it when I use it and it short-circuits?

A: There is no short-circuit protection, if you need short-circuit protection, please connect the resettable fuse in series at the input.