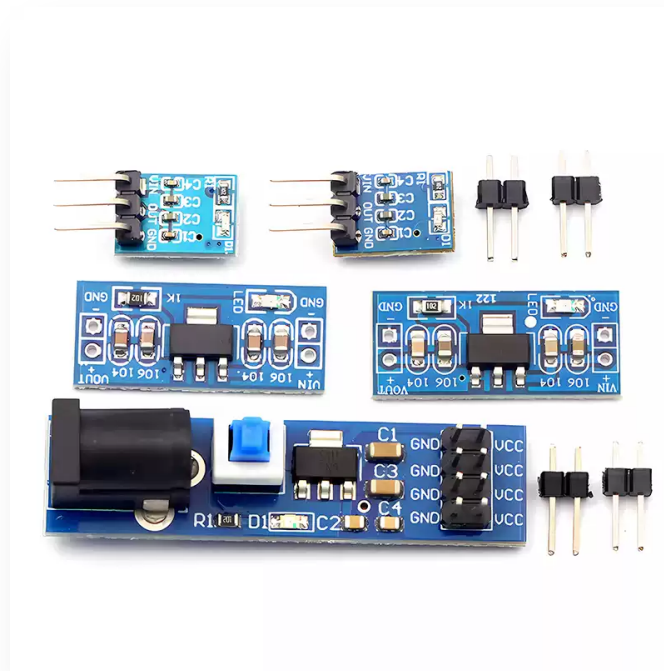


# AMS1117 3.3 V / 5 V Linear Regulator Module Family

Compact fixed-output low-dropout regulator boards



## Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

# Electrical and Mechanical Specifications

| Parameter               | Value                                                          |
|-------------------------|----------------------------------------------------------------|
| Regulator family        | AMS1117                                                        |
| Available fixed outputs | 3.3 V or 5 V, depending on module                              |
| Conversion type         | Linear low-dropout regulator                                   |
| Interfaces              | Solder pads or pin headers, depending on board                 |
| Cooling                 | PCB copper area; output current is thermally limited           |
| Variants                | Bare module, pin-header module and switched barrel-input board |

## Key Features

- Fixed 3.3 V / 5 V variants
- Low component count
- Multiple connection formats
- Compact linear regulation

## Operating Notes

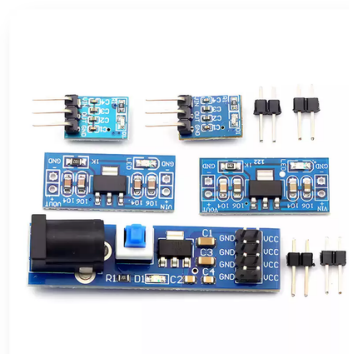
- Select the correct fixed-output variant before installation.
- A linear regulator dissipates  $(V_{IN} - V_{OUT}) \times I_{OUT}$  as heat.
- Do not exceed the input rating or thermal capability of the selected board.

# Application and Connection Guide

## APPLICATION & CONNECTION

### HIGHER DC INPUT

Within module rating



### LOGIC / SENSOR LOAD

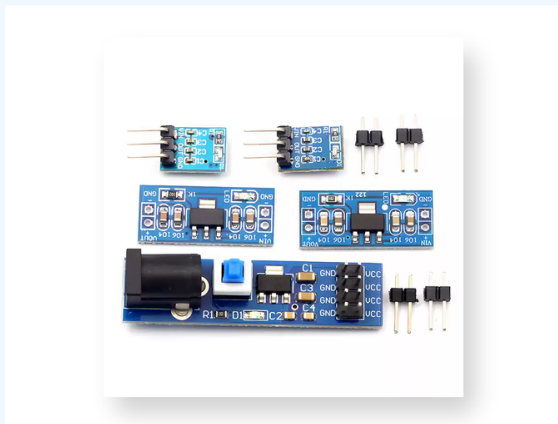
3.3 V or 5 V

**Verify polarity and configure voltage/current before connecting the load.**

## Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

## KEY PRODUCT ADVANTAGES



- 1 **Fixed 3.3 V / 5 V variants**
- 2 **Low component count**
- 3 **Multiple connection formats**
- 4 **Compact linear regulation**