1. Product Top View

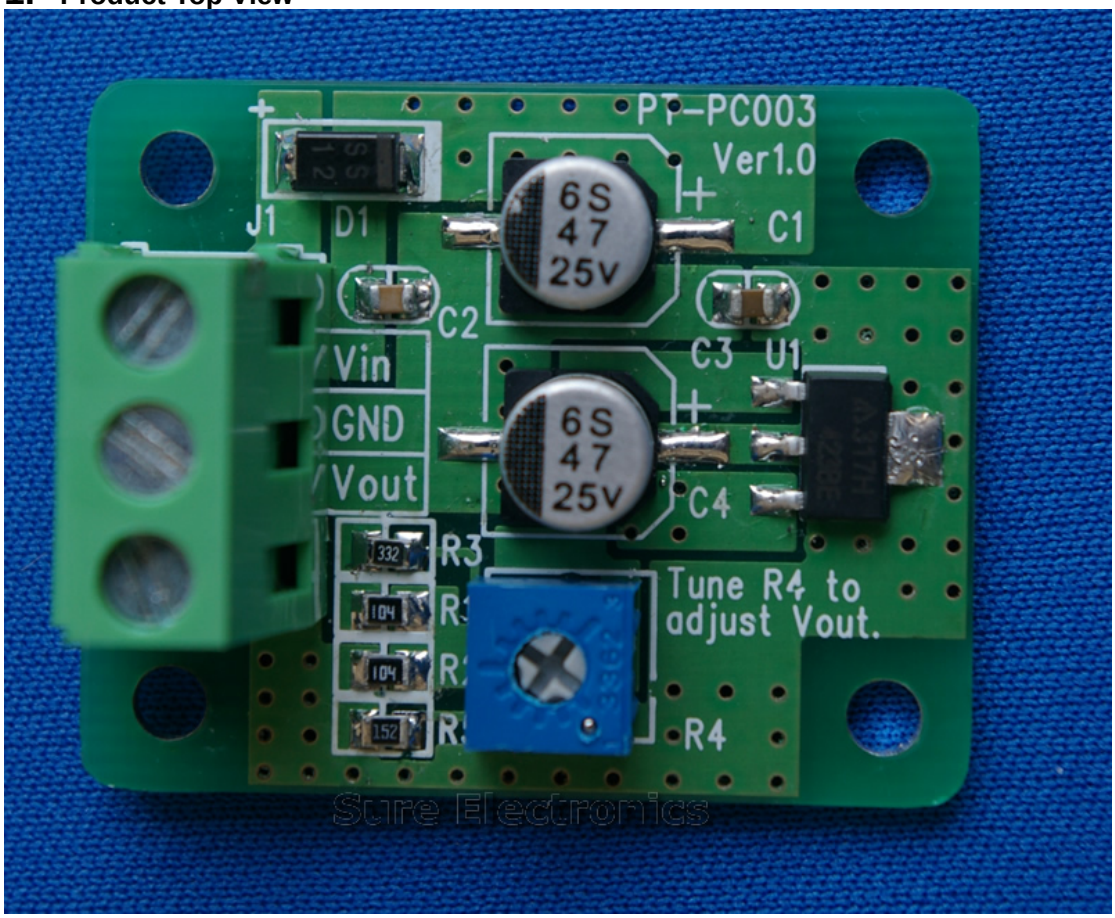

Figure 1

2. Electrical Characteristics

- All regulator boards were tested for over 12 hours before shipping.
- Internal Thermal Overload Protection.
- Internal Short Circuit Current Limiting.
- Output Transistor Safe Operating Area Compensation.
- Up To 0.5A Output Current, I_{max} =1.5 / (V_{in} - V_{out}), for example, input 10V, output 7V, the maximum output current is 1.5/ (10-7) =0.5A. When Power Dissipation is 1.5watt, the board temperature is 40 centigrade more than environment temperature.
- Output Ripple and Noise: Maximum RMS 3mV, Maximum 8mV P-P, @5V, 0.2A output.
- Maximum Input Voltage: 24V.
- Suggested Input Voltage: +5~+24V DC.
- Output Adjustable Between: +2.5V ~+12V.
- Operating Environment Temperature Range: 0 ~+55℃.
- Storage Environment Temperature Range:-25~+85℃.

3. How to Connect Load

Suggested connection is shown in Figure 2.

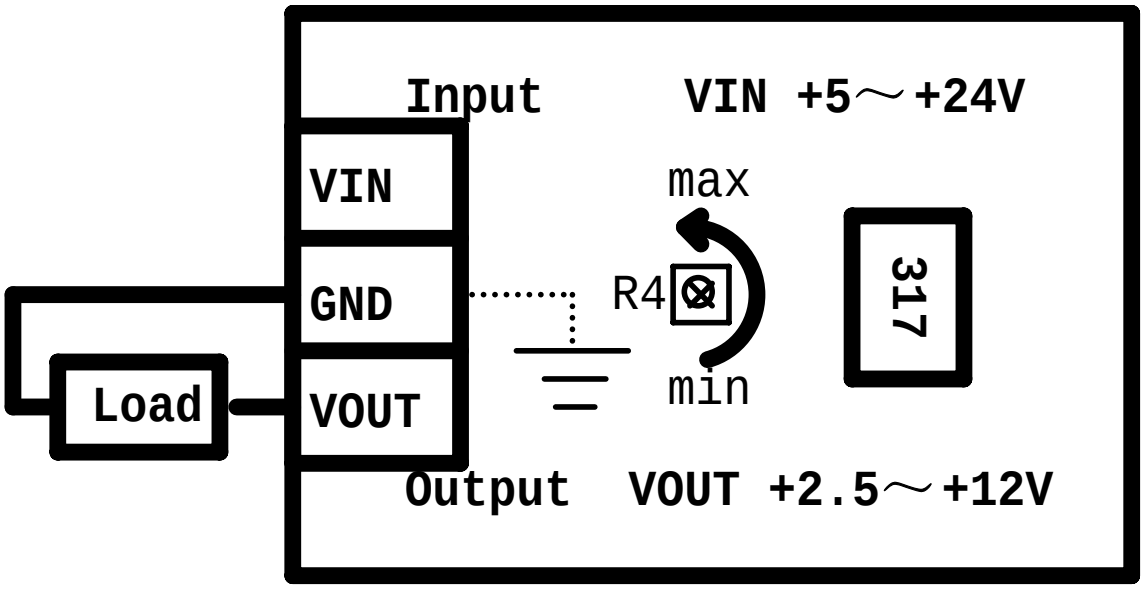

Figure 2 (View from potentiometer installation side)

Notice:

1. GND should be connected to GND or the housing of your instrument.
2. When linking load, LM317 is able to regulate output voltage.
3. Load should be more than 5mA, or the output voltage will be unstable.
4. Input voltage must be 3V or even higher than output voltage.
5. If the load is too heavy, the output voltage may be less than expected voltage.

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