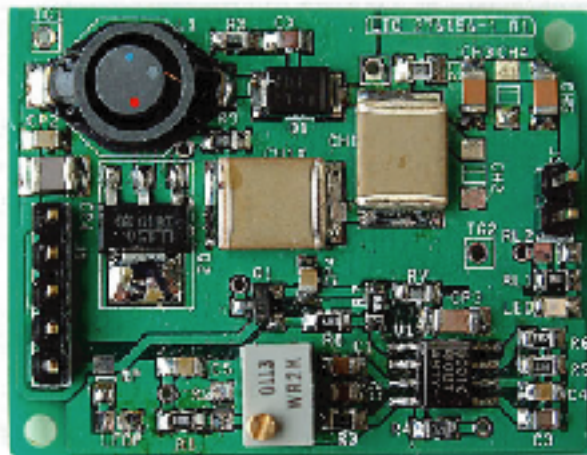


Features

- Very Low Ripple
- Output Remotely Controlled
- High Reliability
- Compact Size
- Economical



Description

The APD-90 is a low noise bias supply for an Avalanche Photodiodes Detector (APD). Using a DC input voltage of 5V to 12.5V, the APD-90 can provide a regulated output voltage of 30V to 90V. The output voltage can be set by an on board potentiometer or remotely controlled by a 0-5V analog signal.

The APD-90 is a boost converter based on fixed frequency, Pulse-Width-Modulation (PWM). The 250KHz PWM enables a very efficient output filter in APD-90, thus APD-90 is of low noise and small size.

The APD-90 is also suitable to other high voltage applications, such as LCD backlight power supply.

Specifications

- +30V to +90V output voltage
- On board pot or 0-5VDC to adjust the output voltage
- Output ripple less than 5 mV @ 90V/1mA output
- Operation frequency: 250KHz
- 5-12.5VDC single power supply
- SMD construction
- Size: 1.65" x 1.27" x 0.39" or 42mm x 33mm x 10mm

We reserve the right to change the details of design, materials and finish in any way that will not alter function performance.