

ANALOG MODULES, INC.

ADJUSTABLE HIGH VOLTAGE POWER SUPPLY

TEMPERATURE-COMPENSATED HIGH VOLTAGE POWER SUPPLY FOR PHOTODETECTOR BIASING

- ADJUSTABLE TEMPERATURE COEFFICIENT
- VERY LOW NOISE
- OUTPUT VOLTAGE UP TO -250 V
- SMALL SIZE PCB OR PLATE MOUNT
- LOW POWER
- **5 VOLT OPERATION**
- **HIGH RELIABILITY**



DESCRIPTION:

The *Model 522-1* is a low-noise, high voltage power supply with adjustable temperature coefficients suitable for biasing PIN or Avalanche Photodiodes (APDs). Ultra-low power consumption and operation from 5 volts make the *Model 522-1* ideal for use in power-critical applications. A shutdown pin reduces the power consumption to 3mA. Output noise is exceptionally low. Continuous current limiting and short-circuit protection help protect the detector from excessive light-induced dissipation. The low profile, two cubic inch package can be chassis mounted or PCB mounted.

SPECIFICATIONS:

Input

Voltage +5 VDC \pm 10%

Current 15 mA typical (no load)

Output

Voltage -20 to -250 V

Current 2 mA, continuous short circuit

protection

 $\begin{array}{ll} \text{Power} & 150 \text{ mW} \\ \text{Ripple} & 1 \text{ mV}_{\text{RMS}} \end{array}$

Regulation

Load <0.005%, 0 to 100% load Line $\pm 1.0\%$, +4.5 V to +5.5 V input

Voltage Control Internal trimpot

Coefficient Internal trimpot

0 to +2.5 V/°C

Shutdown TTL high, $68 \text{ k}\Omega$ input impedance

Temperature 0° to 70°C

Connections Solder pads

Size 3.15" x 1.58" x 0.45" **Weight** 1.5 oz (43 grams)



Specifications subject to change without notice.

All specifications valid at 25 ℃.

APPLICATIONS:

Temperature-Compensated HV Power Supply for PIN or Avalanche Photodiodes

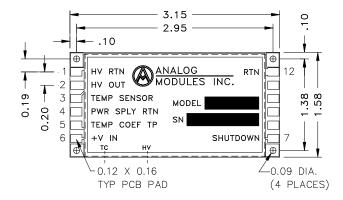
MODEL NUMBER

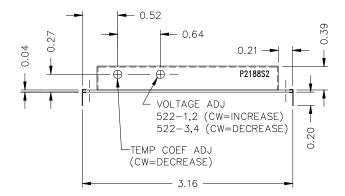
		OUTPUT VOLTAGE RANGE
		-20 to -250VDC
INPUT VOLTAGE	+5VDC	522-1
OUTPUT	Power	150mW

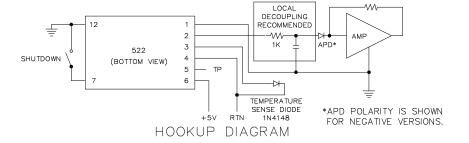
Typical Part Number: 522-1 = Input Voltage: +5VDC

Output Voltage Range: -20 to -250VDC

Power: 150mW







NOTES:

- 1. DIMENSIONS ARE IN INCHES.
- 2. TOLERANCE: ± 0.04 .
- 3. CONNECTIONS MAY BE MADE BY HARD WIRING TO PAD OR USE TERMINALS (8 REQ'D).
- 4. RECOMMENDED TERMINAL HOLE DIA, .032-.043 DIA.