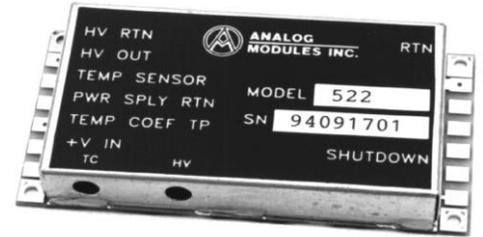


### TEMPERATURE-COMPENSATED HIGH VOLTAGE POWER SUPPLY FOR PHOTODETECTOR BIASING

- Adjustable Temperature Coefficient
- Very Low Noise
- Output Voltage up to -250 V
- Small Size – PCB or Plate Mount
- Low Power Consumption
- 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:

<b>Input</b>		<b>Coefficient</b>	Internal trimpot 0 to +2.5 V/°C
Voltage	+5 VDC ± 10%	<b>Shutdown</b>	TTL high, 68 kΩ input impedance
Current	15 mA typical (no load)	<b>Temperature</b>	0° to 70°C
<b>Output</b>		<b>Connections</b>	Solder pads
Voltage	-20 to -250 V	<b>Size</b>	3.15" x 1.58" x 0.45"
Current	2 mA, continuous short circuit protection	<b>Weight</b>	1.5 oz (43 grams)
Power	150 mW		
Ripple	1 mV <sub>RMS</sub>		
Regulation			
Load	<0.005%, 0 to 100% load		
Line	±1.0%, +4.5 V to +5.5 V input		
Voltage Control	Internal trimpot		

Specifications subject to change without notice.

All specifications valid at 25 °C.

#### APPLICATIONS:

*Temperature-Compensated HV Power Supply for PIN or Avalanche Photodiodes*

