



PROGRAMMABLE HIGH VOLTAGE POWER SUPPLY FOR PHOTODETECTOR BIASING

- Very Low Noise
- Hermetically Sealed
- Small Size
- Shielded Metal Case
- High Reliability



DESCRIPTION:

The **Model 523-1-A** provides a fixed or variable high-voltage source for photodetector biasing or similar applications. The power converter uses techniques to minimize sharp switching transients which can interfere with sensitive circuits. Output voltage may be programmed by an external 0 to 4.5 volt source. To ensure low EMI levels, the output is filtered and the module is hermetically sealed in a non-isolated metal case. See interface description for detailed mechanical drawing and pinout configuration.

SPECIFICATIONS:

All specifications valid at 25 °C

Model No.	523-1-A			
PARAMETER	Min.	Typical	Max.	Units
INPUT				
Power	+4.75	+5.00	+5.25	VDC
Current at max output voltage (100µA load)	-	15	20	mA
Voltage Control (0V = max output)	0	-	+4.5	V
OUTPUT				
Voltage	+20	-	+100	V
Current	-	0.1	1.0	mA
Ripple at max output voltage (100µA load)	-	1	5	mV rms

TEMPERATURE		
Operating	-40°C to +85°C	
Storage	-40°C to +100°C	
SIZE	1.1" x 0.52" x 0.29"	1.1" x 0.52" x 0.45"
WEIGHT	0.22 Oz. (6.1 grams)	0.26 Oz. (7.5 grams)
CONNECTIONS	Pins	

Specifications subject to change without notice.



APPLICATIONS:

HV Bias Source for PIN and APD Detectors, Power Supply for Pulsed Emitters

Voltage Control

The output voltage is linearly proportional to the 0 to +4.5 V control input. +4.5 V control input results in minimum output and 0 V control input results in maximum output.

523-1-A DIMENSIONS AND PACKAGE DETAIL

