PROGRAMMABLE HIGH VOLTAGE POWER SUPPLY FOR PHOTODETECTOR BIASSING

- **300 V and 500 V Versions**
- **Very Low Noise**
- **Hermetically Sealed**
- **Small Size**
- **Shielded Metal Case**
- **High Reliability**

DESCRIPTION:

The ***Model 524*** series provides a fixed or variable high-voltage source for photodetector biassing 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

	524-1			524-2			
PARAMETER	**Min.**	**Typical**	**Max.**	**Min.**	**Typical**	**Max.**	**Units**
INPUT							
Power*	+4.75	+5.00	+5.25	+4.75	+5.00	+5.25	VDC
Current at max output (10µA load)	-	20	50	-	48	100	mA
Voltage Control (0V = max output)	0	-	+4.5	0	-	+4.5	V
OUTPUT							
Voltage	+100	-	+300	+300	-	+500	V
Current	-	-	0.150	-	-	0.125	mA
Ripple at max output (10µA load)	-	4	20	-	15	30	mV rms

TEMPERATURE	
Operating	-40˚C to +85˚C
Storage	-55˚C to +125˚C
SIZE	1.1" x 0.52" x 0.45" (0.247 cu. In.)
WEIGHT	0.26 Oz. (7.5 grams)
CONNECTIONS	Pins

*Operation up to 15 VDC input possible with reduced output current and increased ripple.

Specifications subject to change without notice.

APPLICATIONS:

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

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DC Power Input
The 524 operates from +5 VDC but can accept up to +15 VDC input power. Input voltages >+5 VDC will result in reduced output current and increased ripple.

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.