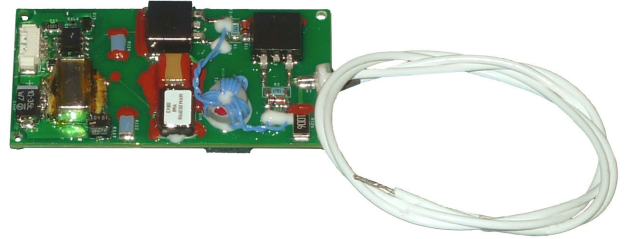




SOLID-STATE POCKELS CELL/SHUTTER DRIVER

- ADJUSTABLE PUSH-PULL OUTPUT TO 3.2kV
- 30ns TYPICAL RISE TIME
- RUGGED SOLID-STATE DESIGN
- SELF-CONTAINED HIGH VOLTAGE POWER SUPPLY
- COMPACT SURFACE MOUNT CONSTRUCTION



DESCRIPTION:

The **Model 823B** Pockels Cell/Shutter Driver is designed for continuous pulsed applications. Solid-state MOSFET technology is used, giving excellent trigger noise immunity and a smooth output waveform. This technique eliminates common problems associated with krytron, avalanche, and transformer drivers. Amplitude is continuously variable by adjusting the internal high voltage power supply.

SPECIFICATIONS:

Trigger Input	Opto-isolated, active high current of 2.5mA to 9.0mA, input impedance 2k Ω	Output	Voltage	2kV to 3.2kV
Pulsewidth	≥ 300 ns to 25 μ s	Load	Tested with 23pF load, 66.7M Ω	
Repetition Rate	Up to 30Hz	Risetime	30ns typical at 3.2kV, 25 $^{\circ}$ C	
Power	+12VDC \pm 0.5V at 10mA to 20mA depending on PRF and output voltage	Recovery	8ms typical at 25 $^{\circ}$ C	
Temperature		Hold Time	> 1 μ s (at >90%)	
Operating	-40 $^{\circ}$ to +71 $^{\circ}$ C	T _{delay in-out}	< 300nsec (typical)	
Storage	-40 $^{\circ}$ to +85 $^{\circ}$ C	T _{jitter}	< 5nsec (typical)	
Connections		Voltage Control	Internal multi-turn trimpot	
Input	4 pin connector <i>Molex 53261-0471</i>	MTBF	> 800,000 hrs. per Bellcore SR-332 Ground Fixed, Controlled, 55 $^{\circ}$ C	
Output	12" flying leads	Size	2.59" x 1.32" x 0.60"	
		Weight	1.0 oz.	

Caution:
Pockels Cell must float electrically.
Mounting hardware must be Non-Conductive.
Nylon hardware is provided.



Specifications subject to change without notice

APPLICATIONS:

Driving E-O Q-Switches for Q-Switching Solid-State Lasers, High Voltage Pulser, E-O Shutter

