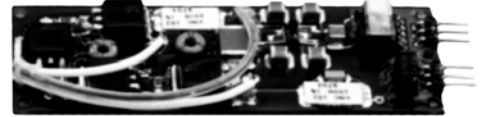




SOLID-STATE POCKELS CELL DRIVER

- ADJUSTABLE OUTPUT TO -3.5kV
- ≤ 30ns RISETIME, 150µs RECOVERY
- RUGGED SOLID-STATE DESIGN
- SELF-CONTAINED HIGH VOLTAGE POWER SUPPLY
- COMPACT SURFACE MOUNT DESIGN
- OPTO-ISOLATED OR TTL TRIGGER OPTIONS



DESCRIPTION:

The **825 Series** Pockels cell drivers are designed for continuous pulsed applications, such as controlled Q-switching of lasers. 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. Options for triggering include an active high opto-isolator and TTL logic. Pulse amplitudes to -3.5kV are available.

SPECIFICATIONS:

<p>Trigger Input TTL/CMOS compatible, positive logic, > 2.5V, high impedance, internally limited to +5V via 1kΩ load (825-1) Opto-Isolated, active high current of 10mA (825-2)</p> <p> Pulsewidth ≥ 300ns to 25µs</p> <p> Repetition Rate Up to 100pps, burst mode permissible</p> <p>Power +15VDC ± 0.5V at 20mA to 100mA depending on PRF and output voltage</p> <p>Temperature 0° to 70° C</p> <p>Connectors</p> <p> Input 4 pin connector</p> <p> Output 12" flying leads</p>	<p>Output</p> <p> Voltage 0 to -3.5kV</p> <p> Load Tested with 47pF, 100MΩ</p> <p> Risetime ≤ 30ns</p> <p> Recovery ≤ 150µs</p> <p> Pulsewidth 1 to 3µs at 97%</p> <p> Voltage Control Internal multi-turn trimpot External (add -EXT to part number) When using external mode: 4V control yields 0V output 8.2V control yields -3.5kV output</p> <p> Monitor HV Monitor lead to monitor HV prior to pulse (add -HV to part number)</p> <p>Size 3.73" L x 1.25" W x 0.48" H</p> <p>Weight 1.8 oz.</p>
--	---

Caution:
Mounting hardware must be Non-Conductive.
Nylon hardware is provided.



Specifications subject to change without notice.

Consult factory for applications in which optical cavity could be sensitive to bonding chemicals.

APPLICATIONS:

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

