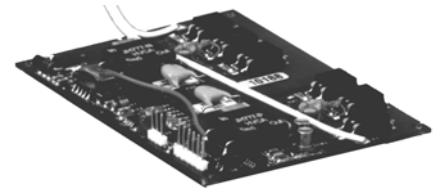




### HIGH REPETITION RATE POCKELS CELL/SHUTTER DRIVER FOR BBO CRYSTALS

- ADJUSTABLE PUSH-PULL OUTPUT TO 5.5kV
- ≤ 20ns RISETIME AND RECOVERY
- HIGH PRF TO 5kHz
- RUGGED SOLID-STATE DESIGN
- SELF-CONTAINED HIGH VOLTAGE POWER SUPPLY
- COMPACT SURFACE MOUNT CONSTRUCTION
- OPTO-ISOLATED OR TTL TRIGGER OPTIONS
- PULSEWIDTH FROM 5µs TO DC



#### DESCRIPTION:

The **Model 8261A** Pockels Cell/Shutter Driver is designed for high repetition rate, 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. The **Model 8261A** is capable of operating at high pulse repetition frequencies, fast risetimes and falltimes, and output pulses up to 5.5kV. A low voltage monitor pin is provided to monitor the high voltage prior to the pulse. Internal timing is provided to refresh the output at a 5kHz rate, providing pulsewidth operation from 5µs to DC.

#### SPECIFICATIONS:

<b>Trigger Input</b>	+4V to +10V into ≥ 500Ω (8261A-1) Opto-isolated, 5V at 10mA typical via internal 470Ω (8261A-2)	<b>Output</b>	Voltage Load Risetime/ Recovery Pulsewidth Voltage Control	1kV to 5.5kV minimum Tested with 5pF load or 20pF load ≤ 20ns (20pF load, 2.7kV) ≤ 20ns (5pF load, 5.5kV) Same as trigger pulsewidth Internal multi-turn trimpot or external control voltage
Pulsewidth Repetition Rate	5µs to DC Up to 5kHz (20pF load, 2.7kV) Up to 5kHz (5pF load, 5.5kV)	Monitor	Pin to monitor HV prior to pulse Scale same as voltage control	
<b>Power</b>	+24VDC ± 0.5V at 20mA to 350mA depending on PRF and output voltage	<b>Size</b>	4.20" x 3.20" x 0.71"	
<b>Temperature</b>	0° to +50°C	<b>Weight</b>	3.0 oz.	
<b>Connections</b>	Power/Trigger Control Monitor Ext. Pot Control Output			
	Panduit MFSS100-6 Connector 0.1" pin spacing Panduit MFSS100-3 Connector 18 ± 2" Flying Leads			

**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, E-O Shutter*

