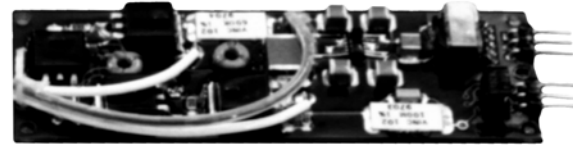


Q-Switch Driver

FEATURES

- + Adjustable Output From -3.5kV to -500V
- + Risetime $\leq 35\text{ns}$, $\leq 100\ \mu\text{s}$ Recovery
- + TTL Trigger Input
- + Compact Surface Mount Design



SPECIFICATIONS

Trigger Input		Output	
Level	2.5 to + 15V, high impedance, internally limited to +5V via 1.33 k Ω load	Level	-3.5kV to -500V, adjustable
Pulsewidth	1 μs to 25 μs	Risetime	$\leq 35\ \text{nsec}$ into 10pF, 100M Ω load
Repetition Rate	Up to 100Hz, burst mode permissible	Pulsewidth	1-5 μs at 97% into 10pF, 100M Ω load
Power	+15VDC \pm 0.5V at 20mA to 100mA depending on PRF and output voltage.	Recovery	$\leq 100\ \mu\text{s}$ (90% to 10%)
Temperature	0° to 60°C	Voltage Control	Multi-turn on board trimpot
Connections		Delay Jitter	300 nsec typical +/- 1 nsec typical
Input	4 pin connector	Size	3.73" x 1.25" x 0.48"
Output	12" flying leads	Weight	2.0 oz

2-100-PCB

The 2-100-PCB is a compact, surface-mount board designed for oem use in applications requiring fast, high-voltage switching of small capacitive loads, such as Pockels cells. The user needs to supply 15-volt DC and a trigger pulse. The high voltage, which is generated on the board and can be continuously adjusted up to a negative 3.5 kV through action of an on-board potentiometer, is switched to ground when a rising trigger edge is received. High voltage switching time to ground is less than 35 nsec; recovery back to the high voltage setting occurs at a slower rate.

Specifications subject to change without notice.

