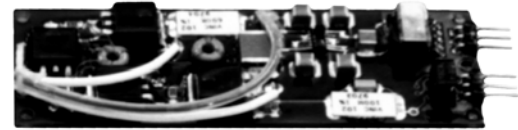


# Q-Switch Driver

## FEATURES

- ✦ Adjustable Output From -500 V to -3.5kV
- ✦ Risetime  $\leq 10\text{ns}$
- ✦ Rep Rate to 100Hz
- ✦ Compact Surface Mount Design



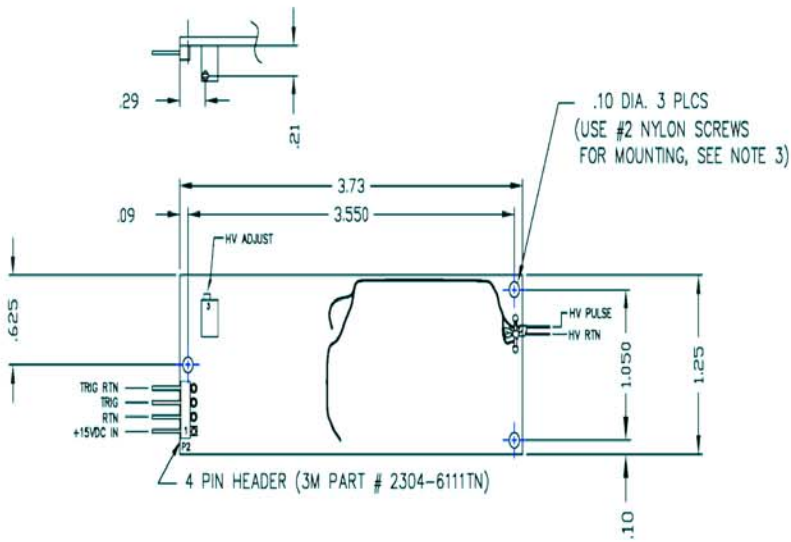
## SPECIFICATIONS

<b>Trigger Input</b>		<b>Output</b>	
Level	+4V into internal 511 $\Omega$ load	Level	-500V to -3.5kV, adjustable
Pulsewidth	5 $\mu\text{s}$ to 1 ms	Risetime	$\leq 10\text{ns}$ into 10pF, 100M $\Omega$
Repetition Rate	Up to 100Hz	Pulsewidth	1-5 $\mu\text{s}$ at 97% into 10pF, 100M $\Omega$ load
<b>Power</b>	+15VDC +/-0.5V at 20mA to 100mA depending on PRF and output voltage.	Recovery	$\leq 100\mu\text{sec}$ into 10pF, 100M $\Omega$
<b>Temperature</b>	0° to 50°C	<b>HV Output Control</b>	Multi-turn on board trimpot
<b>Connectors</b>		<b>Delay</b>	300 nsec typical
Input	4 pin connector	<b>Jitter</b>	+/- 1 nsec typical
HV Output	12" flying leads	<b>Size</b>	3.73" x 1.25" x 0.48"
		<b>Weight</b>	1.8oz

## 2-020-PCB

The 2-020-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 from ground when a rising trigger edge is received. High voltage switching time is less than 10 nsec; recovery back to ground potential occurs at a slower rate.

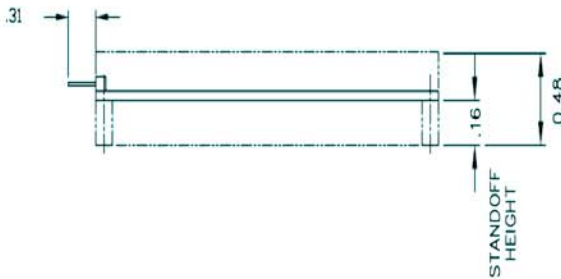
Specifications subject to change without notice.



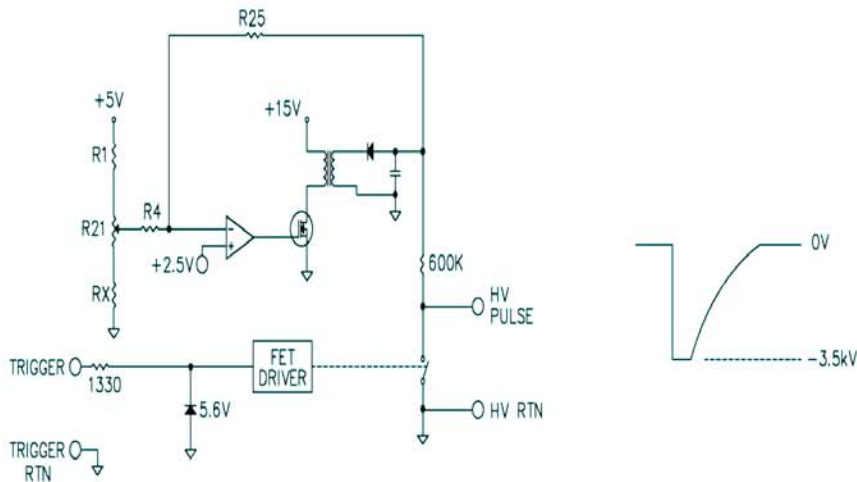
OUTPUT		
SIGNAL NAME	COLOR	LEVEL
HV RTN	BLACK	0V
HV PULSE	WHITE	-3.5kV

NOTES: UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS ARE IN INCHES.
2. TOL: .XX ± .03, .XXX ± .010
3. .16 LONG MOUNTING SPACERS AND .56 LONG NYLON SCREWS SUPPLIED WITH UNIT.



2-020-PCB EQUIVALENT SIMPLIFIED CIRCUIT



2-020-PCB

Specifications subject to change without notice.