

Q-Switch Driver

FEATURES

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



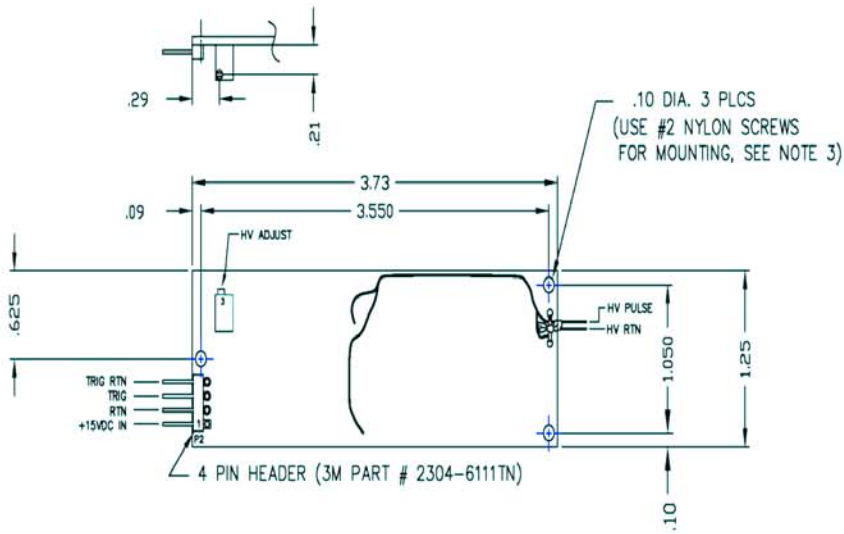
SPECIFICATIONS

Trigger Input		Output	
Level	+4V to + 10V into internal 511 Ω load	Level	-3.5kV to -500V, adjustable
Pulsewidth	1 μs to 25 μsec	Risetime	$\leq 10\text{nsec}$ into 10pF, 100M Ω
Repetition Rate	Up to 100Hz	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	$\leq 100\mu\text{sec}$ into 10pF, 100M Ω
Temperature	0° to 50°C	HV Output 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	1.8oz

2-019-PCB

The 2-019-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 10 nsec; recovery back to the high voltage setting occurs at a slower rate.

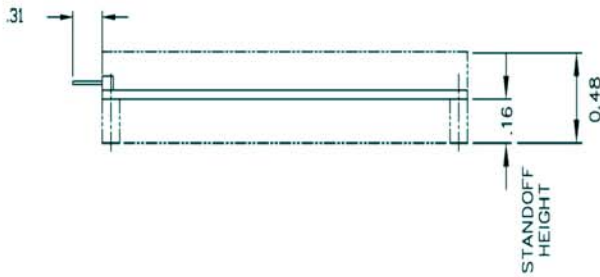
Specifications subject to change without notice.



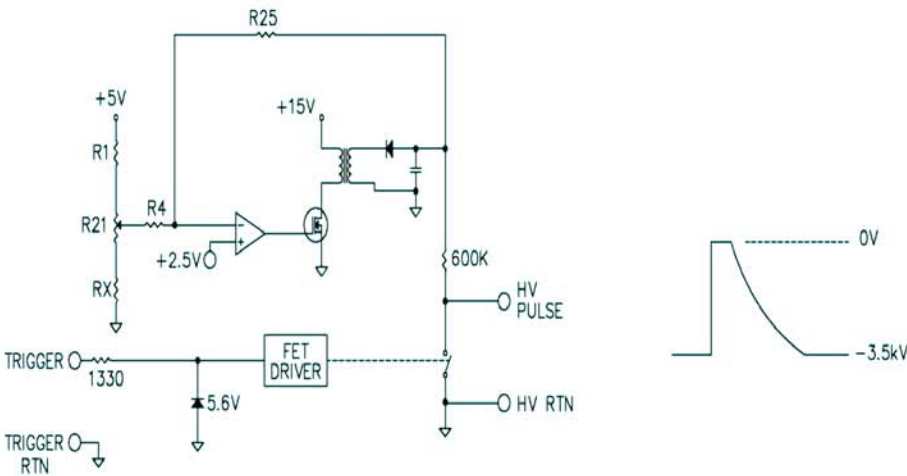
OUTPUT		
SIGNAL NAME	COLOR	LEVEL
HV RTN	BLACK	0V
HV PULSE	WHITE	-3.5kV

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.



2-019-PCB EQUIVALENT SIMPLIFIED CIRCUIT



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