

Q-Switch Driver

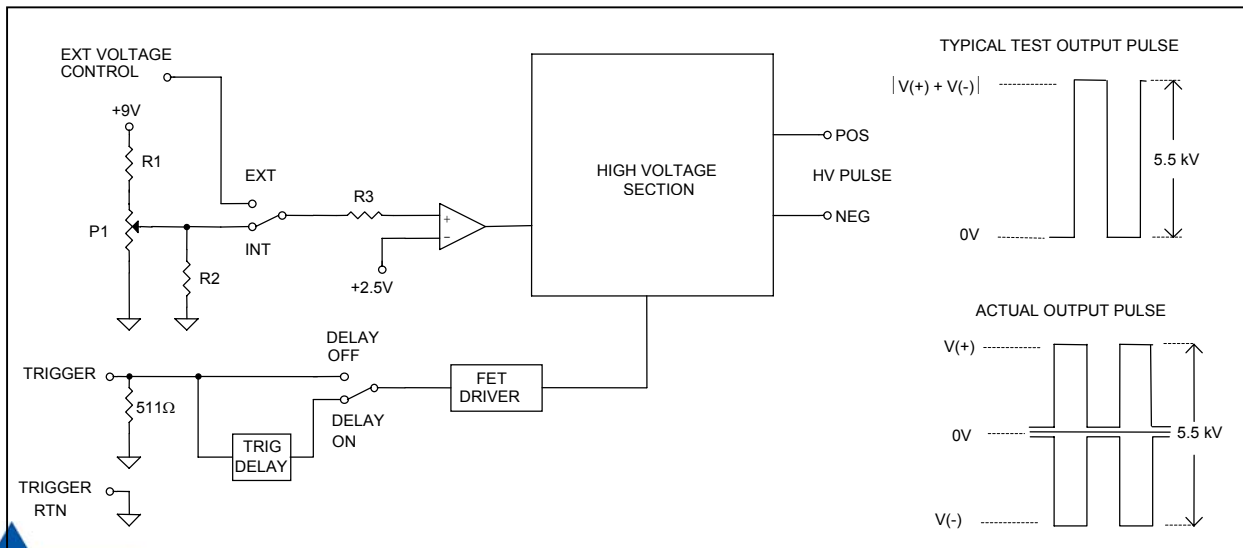
FEATURES

- ✦ Adjustable Output To 5.5kV
- ✦ Risetime $\leq 35\text{ns}$
- ✦ Rep Rate to 5kHz

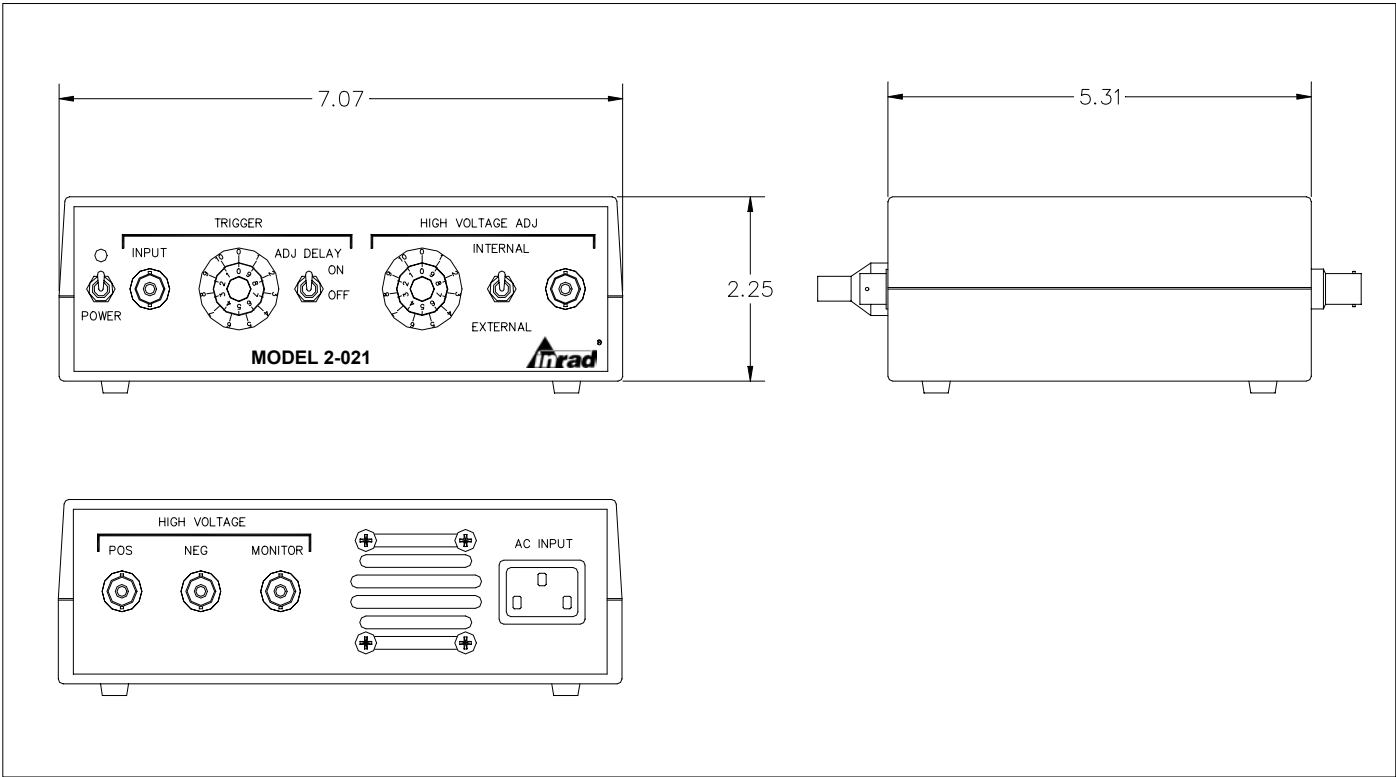
SPECIFICATIONS

Trigger Input		Output	
Level	+5V into internal 511 Ω load	Level	Up to 5.5kV, adjustable, floating output
Pulsewidth	5 μs to DC	Leading & Trailing Edges	$\leq 35\text{ns}$ into 4.7pF, 100M Ω (valid for outputs of 2kV to 5.5 kV)
Repetition Rate	Up to 5kHz (20pF load, 2.7kV) Up to 5kHz (5pF load, 5.5kV)	Pulsewidth	Same as trigger pulsewidth
Delay	500ns min, or 50-500 μs adjustable by dial or external program voltage	HV Output Control	Multi-turn trimpot or external voltage (selectable) Scale: 1V = 1kV output level
Power	100-240 VAC, 1 ϕ , 50-440Hz	Monitor	Scale: 1V = 1kV output level BNC to monitor HV prior to pulse
Temperature	0° to 50°C	Size	7.07" x 5.31" x 2.25"
Connectors			
Trigger Input	BNC		
Ext. HV Adjust	BNC		
HV Monitor	BNC		
HV+ Output	SHV		
HV- Output	SHV		

EQUIVALENT CIRCUIT & WAVEFORM



OUTLINE DRAWING – Model 2-021



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