ANALOG MODULES, INC.

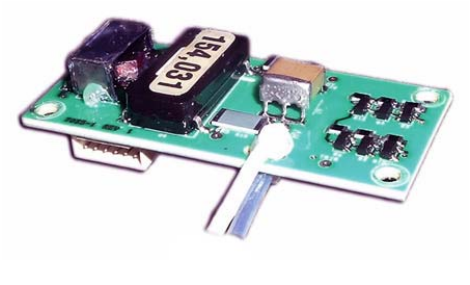
a HEICO company

MODEL 822

SOLID-STATE
POCKELS CELL DRIVERS

COMPACT SOLID-STATE POCKELS CELL DRIVER

- **OUTPUT VOLTAGE UP TO –3.1kV**
- **< 10ns RISETIME, ≤ 3ms RECOVERY**
- **RUGGED SOLID-STATE DESIGN**
- **SELF-CONTAINED HIGH VOLTAGE POWER SUPPLY**
- **COMPACT SURFACE MOUNT DESIGN**
- **TTL/CMOS TRIGGER**



DESCRIPTION:

The ***822*** Pockels cell driver is a compact rugged design for single shot or continuous pulsed applications, such as Q-switching $LiNbO_3$ and RTP crystals. Output voltage is fixed at the factory within the voltage ranges provided. Both commercial (-C) and industrial (-I) temperature versions are available.

SPECIFICATIONS:

Input	
Trigger	TTL/CMOS compatible, positive logic, 2.5V to V_{IN} , high impedance
Pulsewidth	≥ 300ns to 25µs
Repetition Rate	Single shot to 30Hz
Power	+11.5VDC to +15.5VDC @ ≤ 20mA
Temperature	0°C to +70°C (-C version) -40°C to +85°C (-I version)
Connectors	
Input	Flying leads (18 ± 1”)
Output	Flying leads (3 ± 1”)

Output	
Voltage	Up to -3.1kV Factory set (see table on reverse)
Load	Tested with 20pF
Risetime	< 10ns, 3ns typical
Recovery	≤ 3ms
Hold Time	≥ 20µs at 90%, 40µs typical
Size	2.0" L x 0.9" W x 0.52" H
Weight	0.42 oz (12 grams)

Caution:
Mounting hardware must be Non-Conductive.
Nylon hardware is provided.

ISO 9001 CERTIFIED

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

“In the event this commodity will be transferred to a “foreign person” as defined in 22 CFR 120.16, either outside or within the United States, a validated US State Department license is required.”

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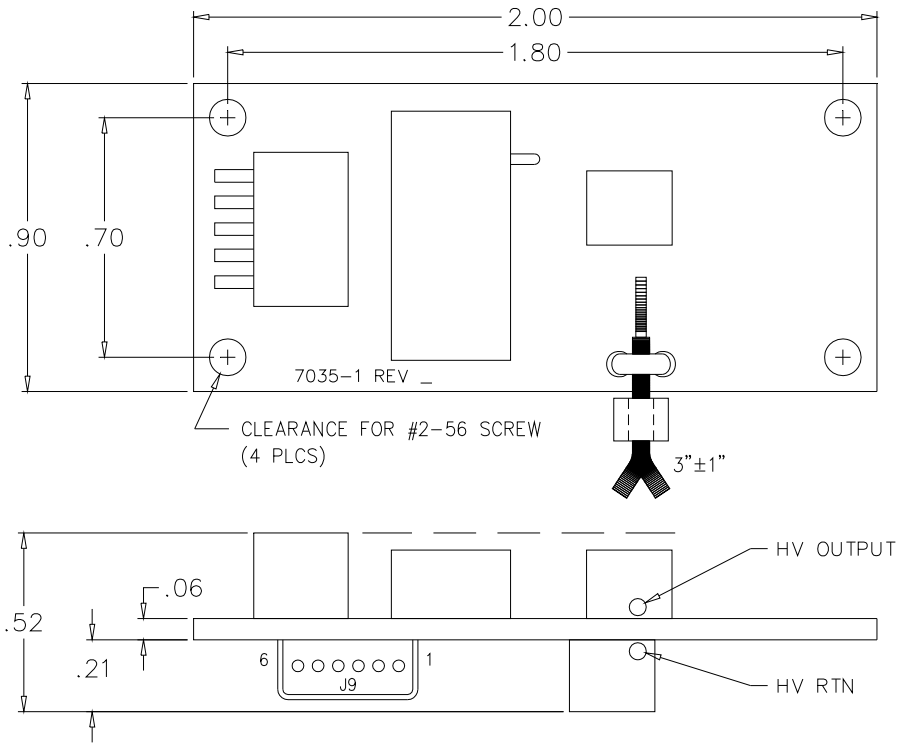
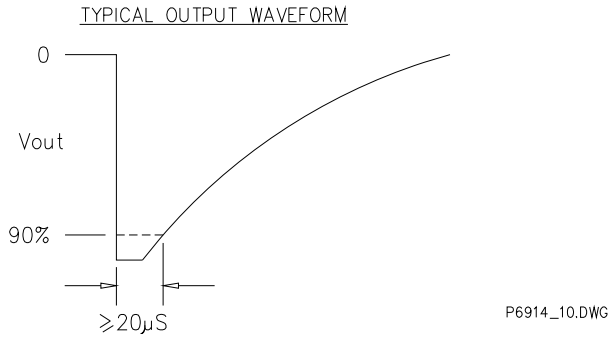
Model Number	Output Voltage*
822-1	-1.00kV ± 100V
822-2	-2.15kV ± 150V
822-3	-2.50kV ± 200V
822-4	-2.90kV ± 200V

*Output voltage fixed at the factory within the range provided.

Typical Part Number: 822-3-C =

Input Voltage(V_{IN}) : +11.5V to +15.5VDC
Output Voltage: -2.50kV ± 200V
Trigger: TTL/CMOS
Temperature Range: 0°C to +70°C





CAUTION: Mounting hardware must be Non-Conductive.
Nylon mounting hardware and mating connector with 18±1" flying leads provided.