Hydrogen Thyratron

L4886A

Stellant's L4886A is a durable ceramic-metal triode hydrogen thyratron, capable of switching up to 33 megawatts of peak pulse power with average levels exceeding 45 kilowatts. Forced air cooling is required at peak operation, and its rugged design excels in harsh environments where glass envelope switch tubes are unsuitable.

KEY FEATURES

- 33 megawatt peak power switching
- 33 kV anode voltage
- 2,000 peak amperes
- Long pulse avg currents to 4 ADC
- Forced-air cooling

SPECIFICATIONS

Ancillary Electrical	
Heater Voltage	5.8 - 6.8 VAC
Heater Current (at 6.3 V)	22 - 35 A
Reservoir Voltage	3.5 - 5.5 V
Reservoir Current (at 4.5 V)	7 - 10 A
Tube Warm-up Time	15 minutes
Peak Grid Voltage	1100 V min
Grid Pulse Width	2 µs min
Grid Drive Source Impedance	75 ohms max

Mechanical Specifications	
Mounting Position	Vertical only, base down
Net Weight	8.5 lbs
Cooling	Forced air cooling

Maximum Ratings	
Peak Anode Voltage, Forward	33.0 kV
Anode Supply Voltage	2.5 kV DC min
Peak Anode Current	2,000 A
Anode Current Pulse-Width	50 µsec
Average Anode Current	4.0 A
RMS Anode Current	72 AAC
PB (epy x ib x prr)	30 x 10 9 VA/Sec
Anode Current Rate of Rise	10,000 A/µsec
Anode Delay Time	1.0 µsec
Anode Delay Time Drift	0.1 µsec
Time Jitter	0.01 µsec
Ambient Temperature	-55°C to +75°C

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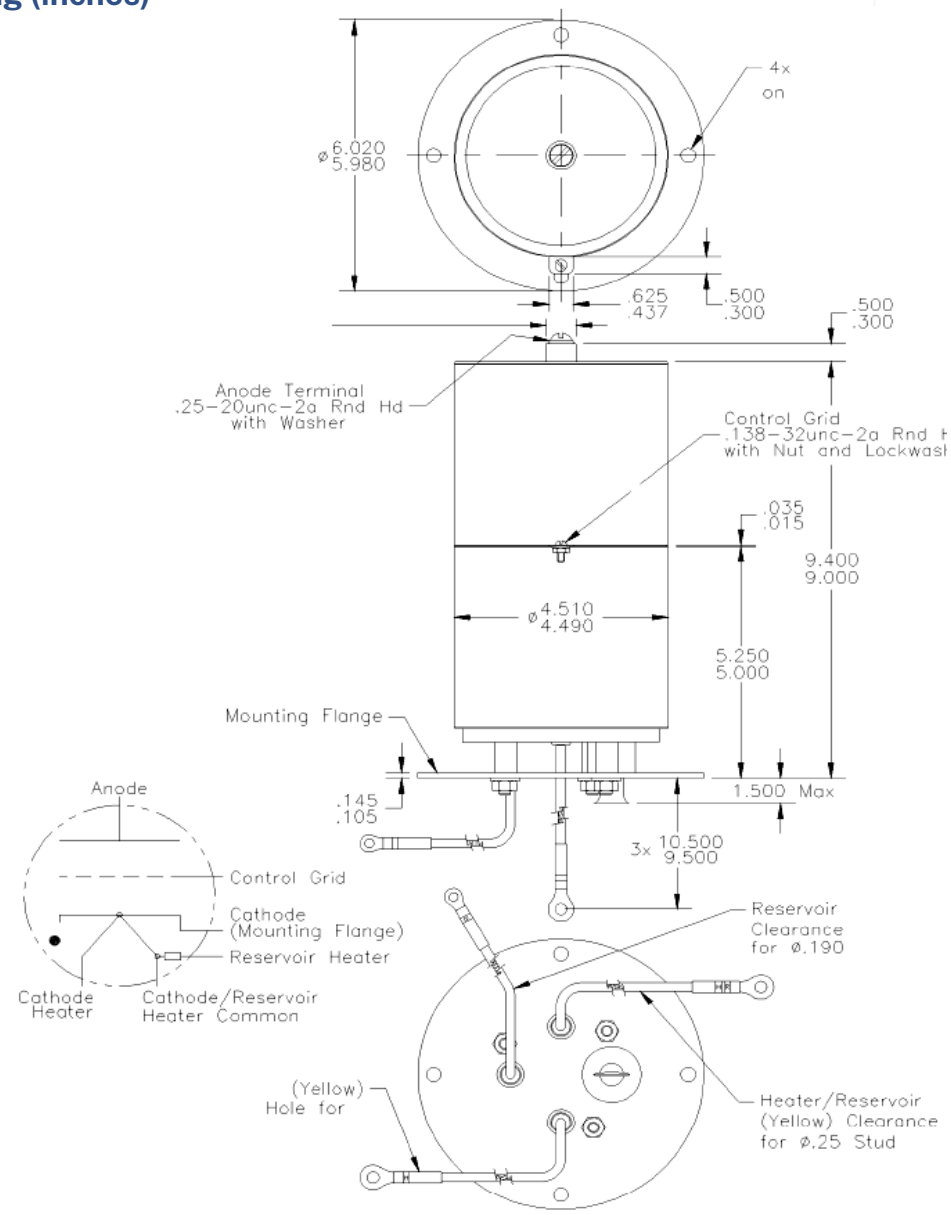
Outline Drawing (inches)



Detailed outline drawings are available on request. Specifications and features are subject to change without notice.

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