# Hydrogen Thyratron
# L-4886A

Stellant's L-4886A is a ceramic-metal, triode, hydrogen thyratron capable of switching 33 megawatts of peak pulse power at average power levels in excess of 45 kilowatts. Maximum ratings are not necessarily achievable simultaneously. At maximum operating parameters, forced air cooling is required. The ceramic-metal construction provides a simple, rugged design usable in harsh environments or for applications that preclude using glass envelope switch tubes.

| **Ancillary Electrical Specifications** | |
|---|---|
| Heater Voltage | 5.8 to 6.8 VAC |
| Heater Current (at 6.3 V) | 22 to 35 A |
| Reservoir Voltage | 3.5 to 5.5 V |
| Reservoir Current (at 4.5 volts | 7 to 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 lb. |
| Cooling | Forced air cooling recommended |

| **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 A AC |
| Pb (epy x ib x prr) | 30 x 10 9 V A/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 |


**KEY FEATURES**

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

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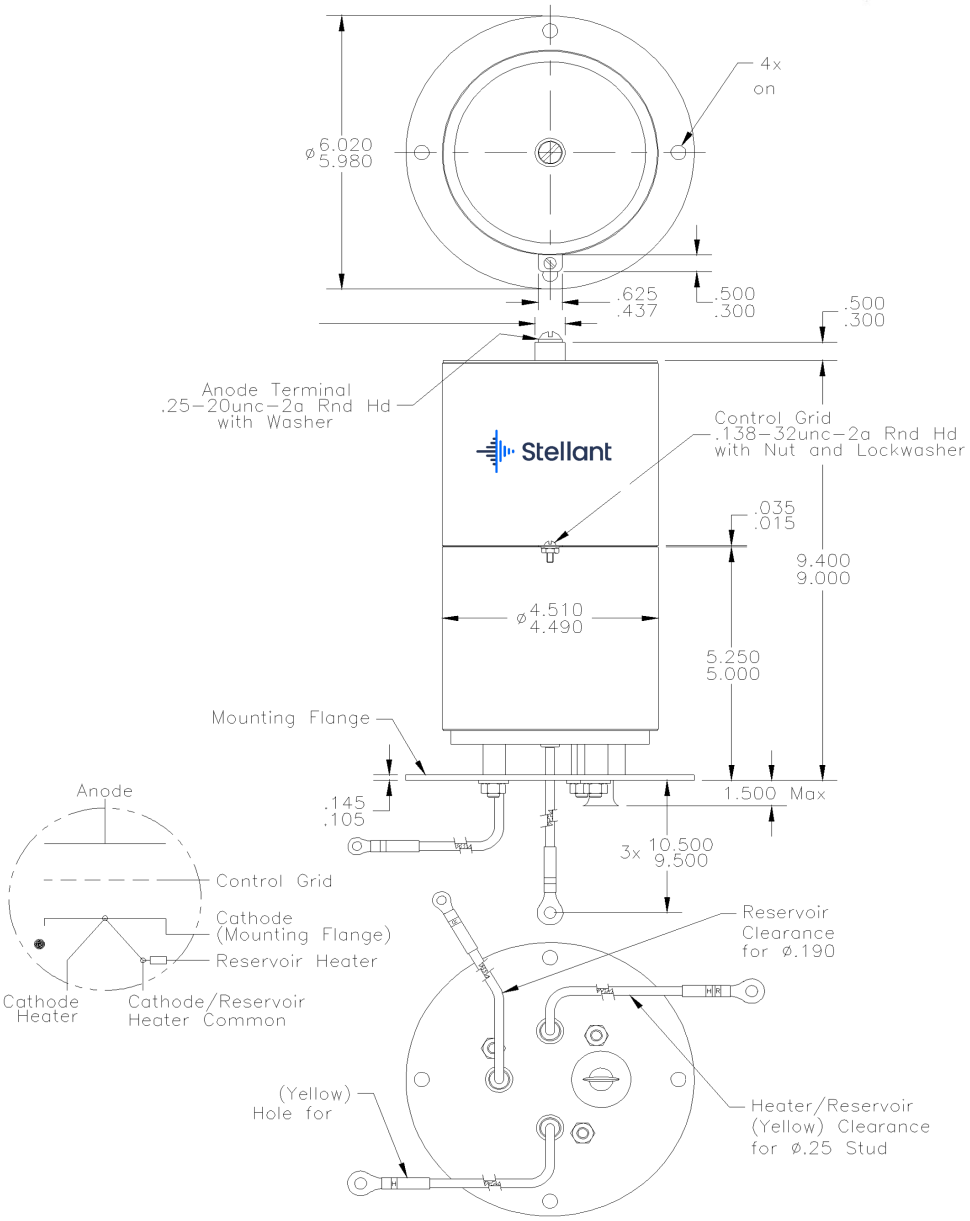


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