

# Hydrogen Filled Thyatron

## L4108

The L4108 is a double high-voltage gap thyatron with a reverse conducting anode. It is suitable for pulsed gas laser applications with significant after current.

### KEY FEATURES

- Hollow anode for bi-directional current flow
- Pre-ionizing auxiliary grid
- Voltage blocking to 44 kV
- Metal/Ceramic construction
- Incorporated TiH reservoir maintains gas pressure as thyatron ages



### SPECIFICATIONS

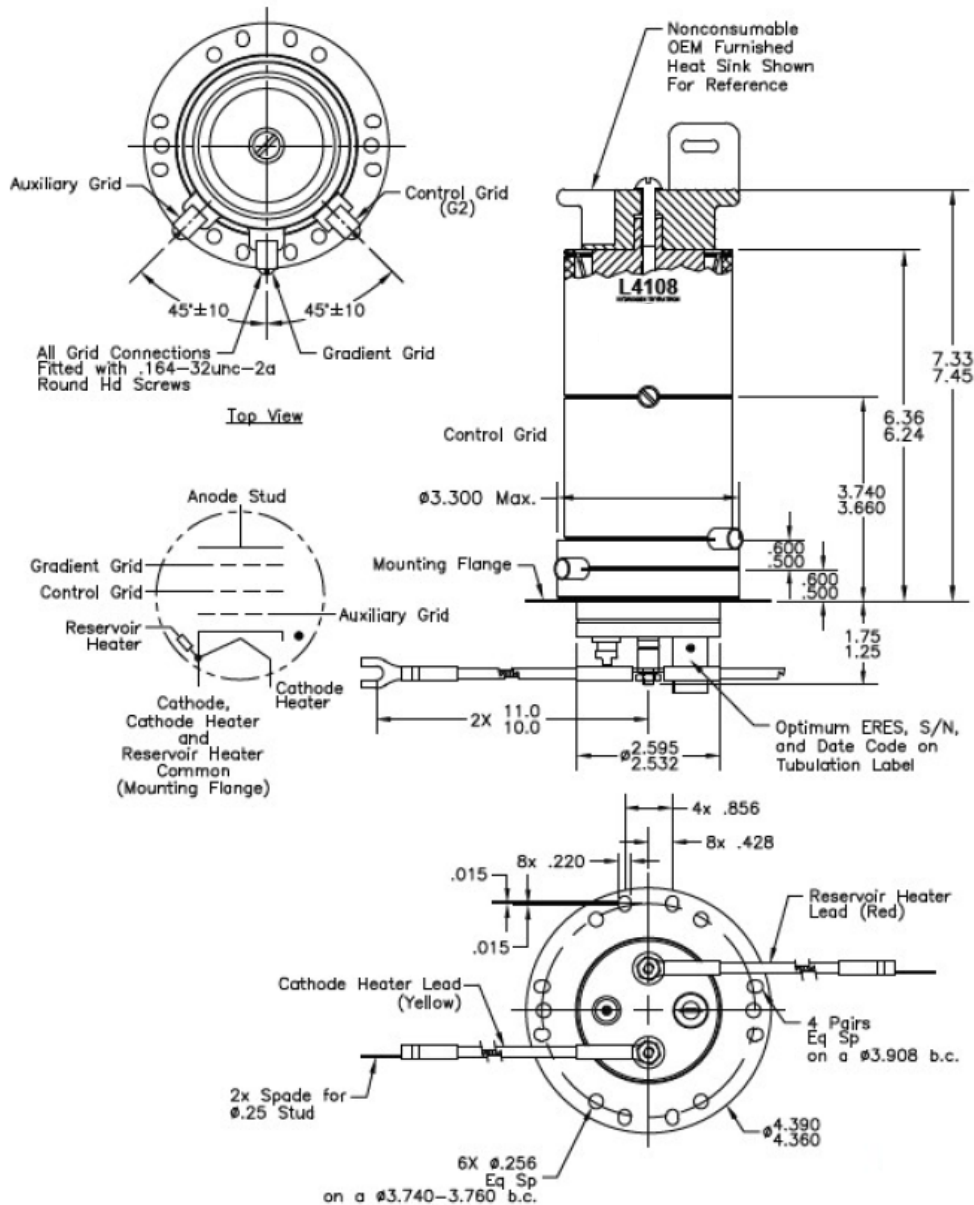
Maximum Ratings	Max	Units
Peak Anode Voltage (epy)	44	kV
Peak Anode Current (ib)	10,000	A
Peak Reverse Anode Current	5,000	A
Average Anode Current (lb)	0.5	ADC
Anode Current Rate of Rise (dib/dt)	100,000	A/μs
Anode Delay Time (tad)	0.4	μs
Time Jitter (tj)	0.005	μs
Ambient Temp	-55°C to +90°C	

Ancillary Supplies	Nom	Min	Max	Units
Peak Grid Voltage (egy)	1,000	500	2,500	V
Grid Voltage Pulse Width (tp)	2	1	-	μs
Grid Voltage Rise Time (tr)	-	-	0.35	μs
Grid Source Drive Impedance (Zg)	100	25	400	Ω
Negative Grid Bias (Ecc)	-100	-50	-150	VDC
Auxiliary Grid Voltage	150	75	250	VDC
Auxiliary Grid Current	100	25	200	mADC
Heater Voltage (Ef)	6.3	6.1	6.5	VAC/VDC
Heater Current at 6.3 V (If)	22	20	24	AAC/ADC
Reservoir Voltage (Eres)	5.8	5.0	6.5	VAC/VDC
Reservoir Current at 6.3 V (Ires)	2.5	2	3	AAC/ADC
Warm-up Time (tk)	10	5	-	Min.

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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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