

Hydrogen-Filled Thyatron L4108

Stellant's 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

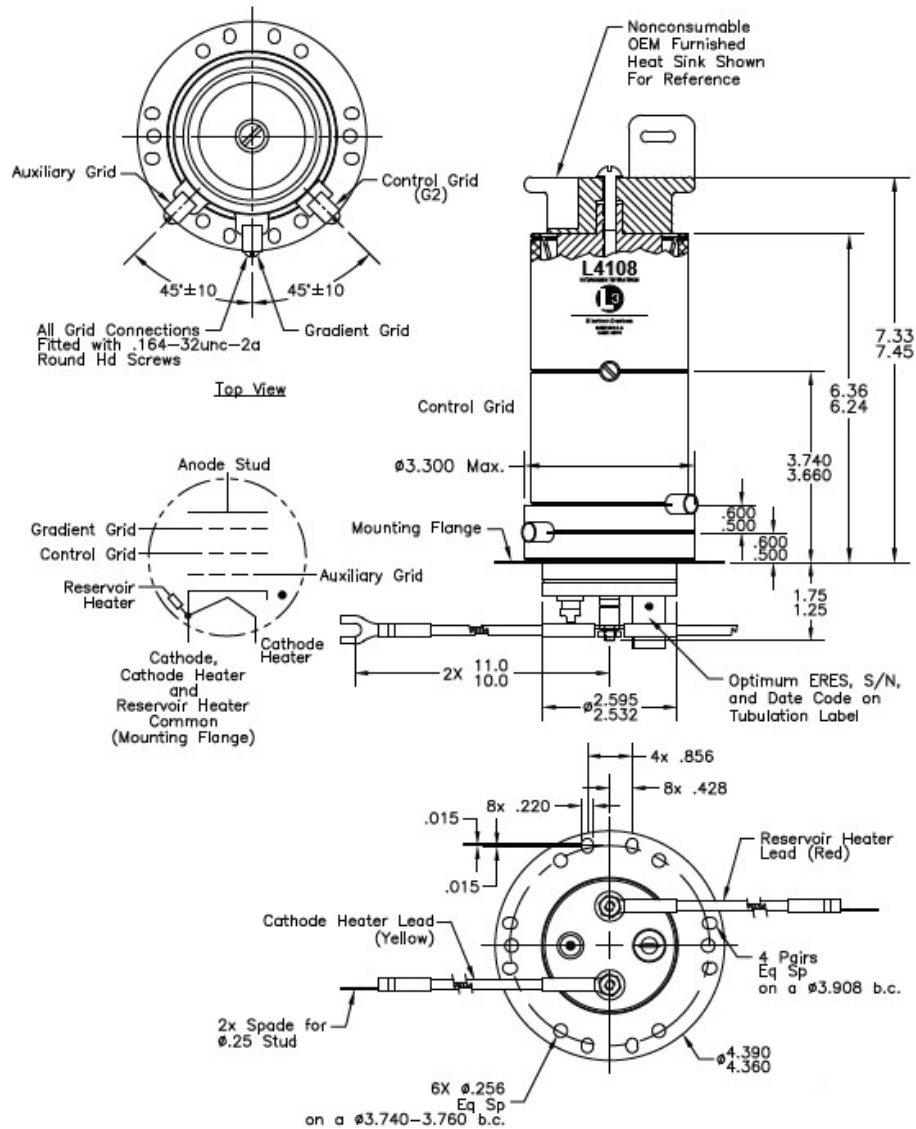
- * Hollow anode for bi-directional current flow
- * Pre-ionizing auxiliary grid
- * Voltage blocking to 44 kV
- * Metal/ceramic construction
- * Incorporated TiH reservoir maintains gas pressure as thyatron ages



SPECIFICATIONS				
MAXIMUM RATINGS	UNITS			
Peak Anode Voltage (epy)	44			kV
Peak Anode Current (ib)	10,000			A
Peak Reverse Anode Current	5,000			A
Average Anode Current (Ib)	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° 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 (inches)



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

Stellant Systems is a premier manufacturer of critical spectrum and RF power amplification products to the space, defense, medical, science and industrial markets for both domestic and international customers. Stellant has 5 domestic manufacturing facilities and approximately 1,100 employees.

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