

L4888 HYDROGEN-FILLED THYRATRON



The L4888 is a two-gap thyatron suitable for line type modulator applications. The electron device is designed for long life accelerator service.

SPECIFICATIONS

MAXIMUM RATINGS

		UNITS
Peak Anode Voltage (epy)	55	kV
Peak Anode Current (ib)	15,000	A
Average Anode Current (Ib)	8.0	ADC
RMS Anode Current (Ip)*	215	ARMS
Anode Current Rate of Rise (dib/dt)	25,000	A/μs
Anode Delay Time (tad)	0.4	μs
Time Jitter (tj)	0.010	μs
Ambient Temp	0° to + 40° C	

ANCILLARY SUPPLIES

	NOM.	MIN.	MAX.	UNITS
Peak Control Grid Voltage (egy)	----	1,200	2,500	V
Control Grid Voltage Pulse Width (tp)	2	1	----	μs
Control Grid Voltage Rise Time (tr)	----	----	0.35	μs
Control Grid Source Drive Impedance (Zg)	----	----	50	Ω
Negative Control Grid Bias (Ecc)	0	----	-100	VDC
Auxiliary Grid Voltage	----	150	300	VDC
Auxiliary Grid Current	----	200	500	mADC
Heater Voltage (Ef)	6.3	6.0	6.6	VAC/VDC
Heater Current at 6.3 V (If)	----	----	75	AAC/ADC
Reservoir Voltage (Eres)	----	3.0	5.5	VAC/VDC
Reservoir Current at 4.5 V (Ires)	----	----	25	AAC/ADC
Warm-up Time (tk)	----	15	----	min.

*The root mean square anode current shall be computed as the square root of the product of peak current and average current, $(ib \times I_b)^{0.5}$.

Specifications are subject to change without notice.



KEY FEATURES

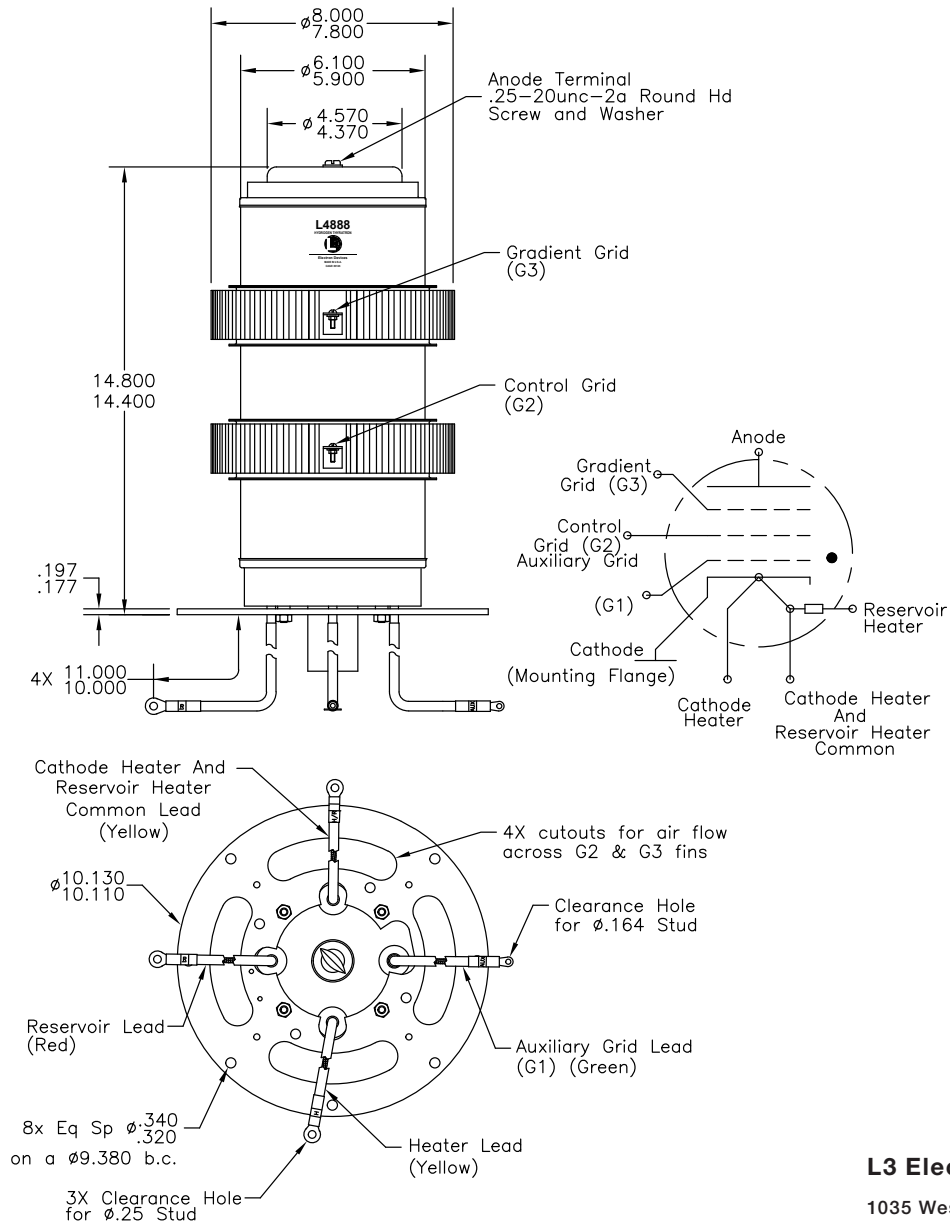
- Rugged metal/ceramic construction
- Auxiliary grid may be DC primed or pre-pulsed
- Configured for forced-air cooling (250 CFM minimum) directed at mounting flange from below
- Cooling may be by liquid immersion

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SEE OUTLINE

(measurements in inches)



Please contact L3 Electron Devices for additional information, specific product requests, and/or requirements.

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