

POWER AMPLIFIER TRIODE TYPE WL-7464

The WL-7464 is a three electrode tube designed for use as a modulator or amplifier. The anode is capable of dissipating 8.0 kilowatts of power in Continuous Commercial Service. Cooling is accomplished by water flow through an integral water jacket. The cathode is a thoriated tungsten filament. Maximum ratings apply for audio frequencies.

ELECTRICAL:

	Min.	Bogey	Max.	
Filament Voltage	5.7	6.0	6.3	Volts
Filament Current	57	60	63	Ampere
Filament Starting Current	--	--	300	Ampere
Filament Resistance, (cold)	--	.016	--	Ohms
Amplification Factor	--	6.0	--	
Direct Interelectrode Capacitance (Avg.):				
Grid-Plate	14			$\mu\mu\text{f}$
Grid-Filament	15			$\mu\mu\text{f}$
Plate-Filament	1.5			$\mu\mu\text{f}$

MECHANICAL:

Mounting Position	Vertical, Anode Down
Type of Cooling	Water
Water Flow Required	3.75 GPM
Water Pressure	7.0 PSI
Maximum Outlet Water Temperature	70°C
Airflow on Filament & Grid Seals	30 CFM
Maximum Glass Temperature	180°C
Net Weight	1.75 Pounds

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR-CLASS A

MAXIMUM RATINGS

Absolute Maximum Values

DC Plate Voltage	8.0 max.	Kilovolts
Negative DC Grid Voltage	1500 max.	Volts
Plate Input	8.0 max.	Kilowatts
Plate Dissipation	8.0 max.	Kilowatts

TYPICAL OPERATING CHARACTERISTICS

DC Plate Voltage	5250	Volts
DC Grid Voltage	-625	Volts
Peak AF Grid Voltage	625	Volts
Peak AF Plate Voltage	2850	Volts
DC Plate Current	1.5	Ampere
Load Resistance	2060	Ohms
2nd Harmonic Distortion (approx.)	5	Per Cent
Power Output	2.0	Kilowatts

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR CLASS AB₁

MAXIMUM RATINGS (PER TUBE)

Absolute Maximum Values

	CCS	
DC Plate Voltage	8.0 max.	Kilovolts
DC Plate Current	2.5 max.	Ampere
Negative DC Grid Voltage	2000 max.	Volts
Plate Input	18.0 max.	Kilowatts
Plate Dissipation	8.0 max.	Kilowatts

TYPICAL OPERATING CHARACTERISTICS

(Unless Otherwise Specified, Values are for Two Tubes)

DC Plate Voltage	7.5	Kilovolts
DC Grid Voltage	1200	Volts
Peak AF Grid to Grid Voltage	2340	Volts
Zero Signal Plate Current	.30	Ampere
Maximum Signal DC Plate Current	2.68	Ampere
Peak AF Plate to Plate Voltage	9.4	Kilovolts
Effective Load Resistance (Plate to Plate)	4820	Ohms
Maximum Signal Driving Power	0	Watts
Maximum Signal Power Output	10.8	Kilowatts
Total Harmonic Distortion (approx.)	2.3	Per Cent



