

March 17, 1959

HIGH VACUUM AMPLIFIER TYPE WL-6567

The WL-6567 is a three-electrode tube designed for use as an oscillator or amplifier. The anode is water-cooled and is capable of dissipating 15 kilowatts. The cathode is a single phase thoriated tungsten filament. Maximum ratings apply up to 50 megacycles.

Electrical:

Filament	6.0	Volts
Filament Current	70	Amperes
Amplification Factor	33	
Direct Interelectrode Capacitances:		
Grid to Plate	14	μft
Grid to Filament	30	μft
Plate to Filament5	μft

Mechanical:

Mounting Position ▲	Vertical, Anode Down
Anode	External with Integral Water Jacket
Type of Cooling	Water
Minimum Water Flow ■	7 GPM
Air Flow to Filament and Grid Seals	30 CFM
Maximum Temperature:	
Outlet Water	70° C
Bulb	180° C

CLASS C TELEGRAPHY
(Key down without modulation)

Maximum Ratings:

Absolute Maximum Values

DC Plate Voltage	12,000	max.	Volts
DC Plate Current	2.5	max.	Amperes
DC Grid Voltage	-1200	max.	Volts
DC Grid Current75	max.	Amperes
Plate Input	24	max.	Kilowatts
Plate Dissipation	15	max.	Kilowatts

Typical Operating Characteristics:

DC Plate Voltage	9000	10,000	12,000	Volts
DC Grid Voltage	-600	-700	-800	Volts
Peak R.F. Grid Voltage	960	1,100	1,200	Volts
DC Plate Current	1.97	1.96	1.94	Amp
DC Grid Current	0.45	0.42	0.39	Amp
Peak R.F. Plate Voltage	8000	9,000	11,000	Volts
Driving Power †	414	441	445	Watts
Power Output	14.1	15.9	19.3	Kilowatts
Power Input	17.8	19.6	23.3	Kilowatts

CLASS B AUDIO FREQUENCY AMPLIFIER OR MODULATOR

Maximum Ratings (Per Tube)

Absolute Maximum Values

DC Plate Voltage	12,000	max.	volts
DC Plate Current (max. signal)	2.50	max.	amperes
DC Grid Current (max. signal)	0.50	max.	amperes
Plate Input	26.0	max.	kilowatts
Plate Dissipation	15.0	max.	kilowatts

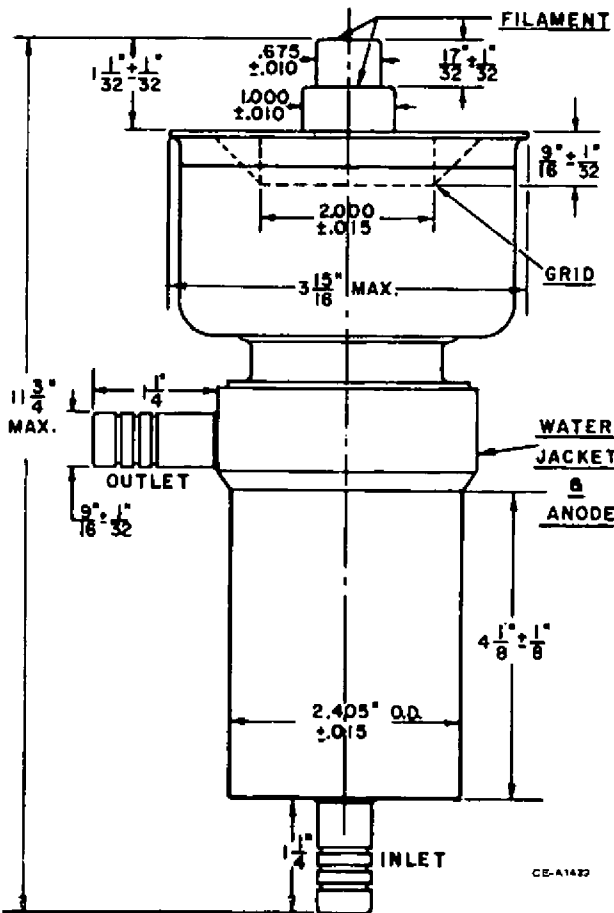
Typical Operating Characteristics:
(Values are for two tubes)

DC Plate Voltage	5500	10,500	volts
DC Plate Current (max. signal)	3.95	4.0	amperes
Plate Current, Zero-Signal80	0.200	amperes
Grid to Grid Peak A.F.	680	1030	volts
DC Grid Voltage	-100	-300	volts
Driving Power (max. signal)	185	150	watts
Power Output	13.2	27.0	kilowatts
Power Input	21.7	42.0	kilowatts
Plate Load (plate to plate)	2780	5600	ohms
Distortion-Harmonic (Approx.)	4.8	3	percent
Peak R.F. Plate Voltage	4300	8820	volts

† Allowance must be made for grid circuit losses which are not included.

▲ Connectors for WL-6567 are available from Westinghouse.

■ Pressure drop at 7 GPM is 16 lb/in².



AVERAGE PLATE CHARACTERISTICS

