Release No. 601

September 5, 1947

TYPE 4C36

original sponsor: Lewis Electronics
final sponsor: RMA

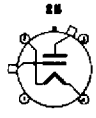
GENERAL CHARACTERISTICS

ELECTRICAL

Filament	Thoriated Tungsten
Voltage	5.0 volts
Current	7.5 amps
Amplification Factor	29
Direct Interelectrode Capacitances	
Grid-Plate	3.0 mmf
Input, grid-filament	3.2 mmf
Output, plate-filament	0.4 mmf
Frequency for Maximum Ratings	60 Mcs

MECHANICAL

Type of Cooling	Convection (Maximum Ambient 60° C)
Base	Jumbo 4-pin metal sleeve bayonet base
Maximum Overall Dimensions (See Outline Drawing)	
Length	7.5 in
Diameter (bulb)	2.75 in
Base Connections	#1 nc #2 f #3 nc #4 f



MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

(TENTATIVE)

CLASS "B" AUDIO-FREQUENCY POWER AMPLIFIER, TWO TUBES

	Typical Operation	Max. Ratings	
D-C Plate Voltage	3000	3000	volts
Max. Sig. Plate Current (per tube)*		250	ma
D-C Max. Sig. Plate Input (per tube)*		350	watts
Plate Dissipation (per tube)*		125	watts
D-C Grid Voltage	-120		volts
Peak A-F Grid Input Voltage	480		volts
Zero Sig. Plate Current	40		ma
Max. Sig. Plate Current	240		ma
Max. Sig. Driving Power (approx.)	5		watts
Effective Load (plate to plate)	32000		ohms
Max. Sig. Plate Power Output	500		watts

*(Averaged over any audio-frequency cycle)

CLASS "C" RADIO-FREQUENCY POWER AMPLIFIER & OSCILLATOR

(Key down conditions per tube without modulation. Modulation, essentially negative, may be used if positive peak of A-F envelope does not exceed 115% of carrier conditions)

	Typical Operation	Max. Ratings	
D-C Plate Voltage	3000	4000	volts
D-C Grid Voltage	-250	-600	volts
D-C Plate Current	200	250	ma
D-C Grid Current	40	60	ma
Plate Input		700	watts
Plate Dissipation		125	watts
Peak R-F Grid Input Voltage (approx.)	475		volts
Driving Power (approx.)	18		watts
Plate Power Output	480		watts

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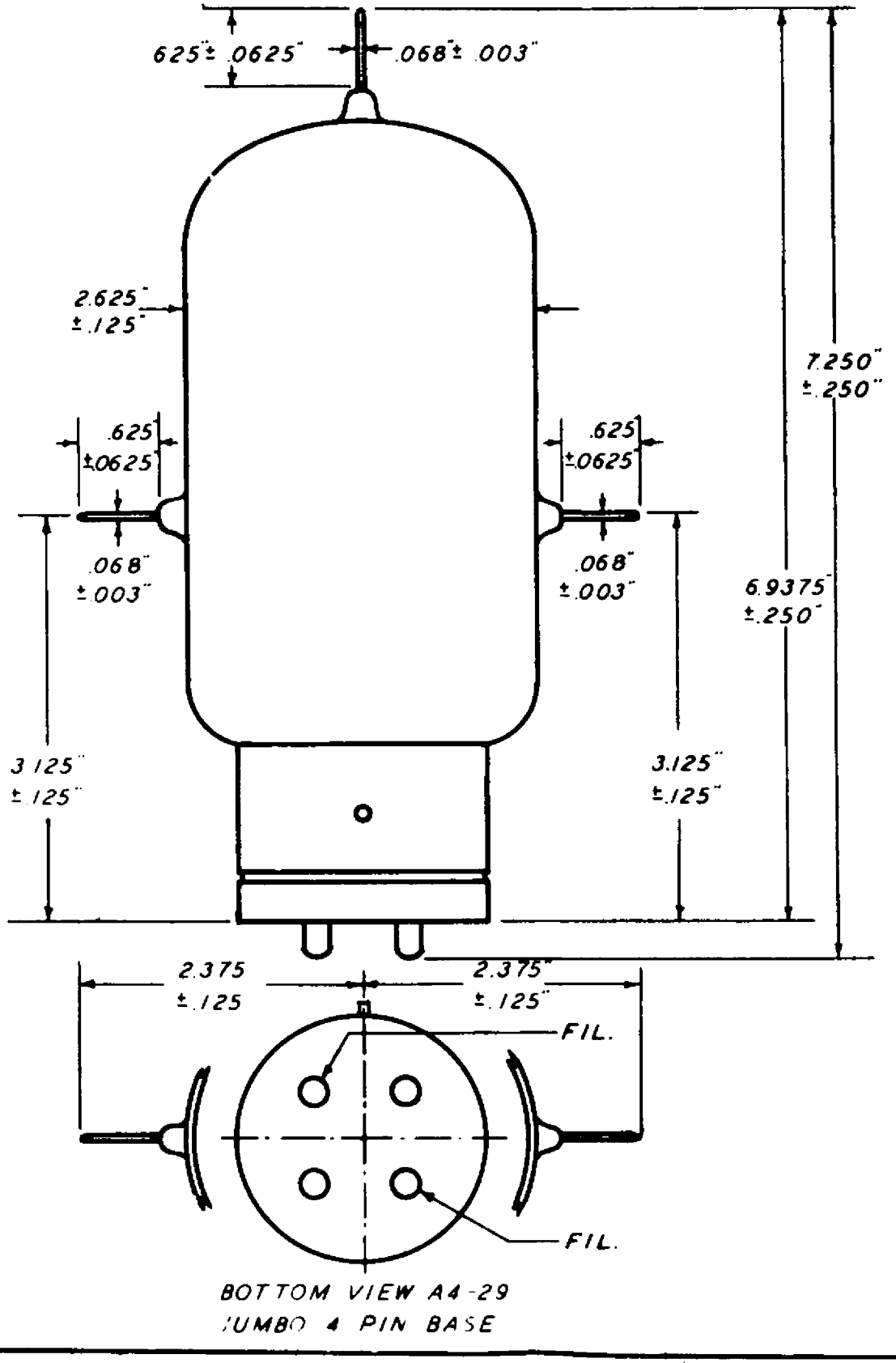

BOTTOM VIEW A4-29
JUMBO 4 PIN BASE