

RCA-1609

Amplifier Pentode

(Low-microphonic design)

RCA-1609 is a pentode of the coated filament type for use as an audio-frequency amplifier in battery-operated installations critical as to microphonics.

TENTATIVE CHARACTERISTICS

Filament Volts (d-c)	1.1	Grid-Plate Capacitance	1.1 μf
Filament Amperes	0.25	Input Capacitance	6.7 μf
		Output Capacitance	7 μf

As Audio-Frequency Amplifier—Class A₁

D-C PLATE VOLTAGE	135 max.	Volts
D-C SCREEN VOLTAGE (Grid No. 2).....	67.5 max.	Volts
D-C GRID VOLTAGE (Grid No. 1).....	-1.5	Volts
D-C PLATE CURRENT	2.5	Milliamperes
D-C SCREEN CURRENT	0.65	Milliampere
PLATE RESISTANCE (Approx.)	0.4	Megohm
AMPLIFICATION FACTOR (Approx.)	300	
TRANSCONDUCTANCE	725	Micromhos

INSTALLATION AND APPLICATION

The base pins of the 1609 fit the standard 5-contact socket which should be mounted to hold the tube in a vertical position. If it is necessary to place the tube in a horizontal position, it should be mounted with the plate in a vertical plane (on edge).

The coated filament is designed for operation from dry-cells, or from a single lead storage cell. The filaments of 1609's should preferably be connected in parallel although it is permissible to operate several of these types in series provided the rated filament current of 0.25 ampere is maintained.

When the input circuit of the 1609 is resistance-coupled, the resistance in the grid circuit should not exceed 0.5 megohm for fixed-bias conditions.

