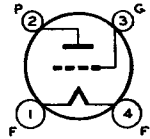


RCA-31

POWER AMPLIFIER



The 31 is a power-amplifier tube of the three-electrode type for battery-operated radio receivers where economy of filament-current drain is important.

CHARACTERISTICS

FILAMENT VOLTAGE (D. C.)	2.0	Volts
FILAMENT CURRENT	0.130	Ampere
PLATE VOLTAGE	135	180 <i>max.</i>
GRID VOLTAGE	-22.5	-30
PLATE CURRENT	8.0	12.3
PLATE RESISTANCE	4100	3600
AMPLIFICATION FACTOR	3.8	3.8
TRANSCONDUCTANCE	925	1050
LOAD RESISTANCE	7000	5700
SELF-BIAS RESISTOR	2815	2440
UNDISTORTED POWER OUTPUT	0.185	0.375
GRID-PLATE CAPACITANCE		5.7
GRID-FILAMENT CAPACITANCE		3.5
PLATE-FILAMENT CAPACITANCE		2.7
BULB		ST-12
BASE		Small 4-Pin

INSTALLATION

Refer to INSTALLATION on type 30.

APPLICATION

As a **power amplifier**, the 31 should be operated as shown under CHARACTERISTICS. Grid voltage may be obtained from a C-battery, or by means of a self-bias resistor connected in the negative plate-return lead. The latter method is required where a grid resistor (maximum value 1 megohm) is used. If more output is desired than can be obtained from a single 31, two 31's may be operated either in parallel or **push-pull connection**.

