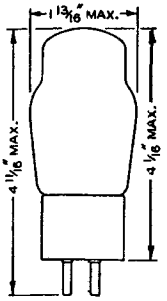
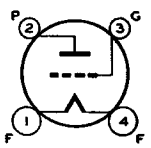


RCA-112-A

DETECTOR, AMPLIFIER



The 112-A is a three-electrode storage-battery tube for use as a detector and as an amplifier.

CHARACTERISTICS

Filament Voltage (D. C.)			5.0	Volts
Filament Current			0.25	Ampere
Plate Voltage	90	135	180 *max.*	Volts
Grid Voltage*	−4.5	−9	−13.5	Volts
Plate Current	5.0	6.2	7.7	Milliamperes
Plate Resistance	5400	5100	4700	Ohms
Amplification Factor	8.5	8.5	8.5	
Transconductance	1575	1650	1800	Micromhos
Load Resistance	5000	9000	10650	Ohms
Undistorted Power Output	0.035	0.13	0.285	Watt
Grid-Plate Capacitance			8.5	μμf
Grid-Filament Capacitance			4.0	μμf
Plate-Filament Capacitance			2.0	μμf
Bulb				ST-14
Base				Medium 4-Pin Bayonet

* The d-c resistance in the grid circuit should not exceed one megohm.

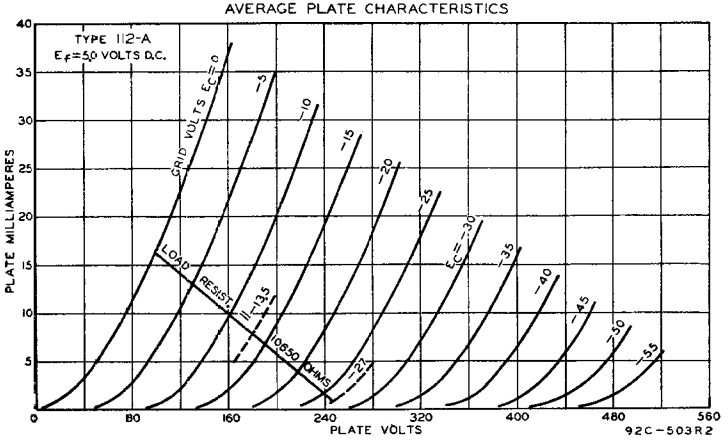
INSTALLATION AND APPLICATION

The **base** pins of the 112-A fit the standard four-contact socket which **should** be installed to hold the tube in a vertical position.

As a **detector,** the 112-A may be operated either with grid leak and **condenser** or with grid bias. For grid-bias detection, plate voltages up to the maximum **value** of 180 volts may be used with the corresponding negative grid-bias voltage (21 **volts** approximately, at 180 volts).

As an **amplifier,** the 112-A should be operated as shown under CHARACTERISTICS.

AVERAGE PLATE CHARACTERISTICS



112A

page	sheet	date
1	168	1937
2	FP	1999.10.10