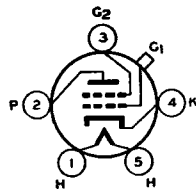


# RCA-24-A

## SCREEN-GRID RADIO-FREQUENCY AMPLIFIER



The 24-A is a screen-grid amplifier tube of the heater-cathode type for use primarily as a radio-frequency amplifier in a-c receivers. The 24-A may also be used as a screen-grid detector or audio amplifier.

### CHARACTERISTICS

HEATER VOLTAGE (A. C. or D. C.)	2.5	Volts
HEATER CURRENT	1.75	Amperes
PLATE VOLTAGE*	180 250	Volts
SCREEN VOLTAGE (Grid No. 2)	90 max. 90 max.	Volts
GRID VOLTAGE (Grid No. 1)	-3 -3	Volts
PLATE CURRENT	4 4	Milliamperes
SCREEN CURRENT (Maximum)	1.7 1.7	Milliamperes
PLATE RESISTANCE	0.4 0.6	Megohm
AMPLIFICATION FACTOR	400 630	
TRANSCONDUCTANCE	1000 1050	Micromhos
GRID-PLATE CAPACITANCE (With shield-can)	0.007 max.	$\mu\text{f}$
INPUT CAPACITANCE	5.3	$\mu\text{f}$
OUTPUT CAPACITANCE	10.5	$\mu\text{f}$
BULB		ST-14
CAP		Small Metal
BASE		Medium 5-Pin

\* Maximum plate voltage = 275 volts.

### INSTALLATION AND APPLICATION

The base pins of the 24-A fit the standard five-contact socket. The socket may be installed to hold the tube in any position. For heater operation and cathode connection, refer to type 2A5. The screen voltage for the 24-A may be obtained from a fixed or variable tap on a voltage divider across the high-voltage supply, or across a portion of the supply. Complete shielding in all stages of the circuit is necessary if maximum gain per stage is to be obtained.

AVERAGE PLATE CHARACTERISTICS

