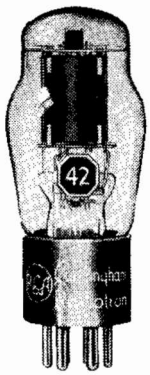
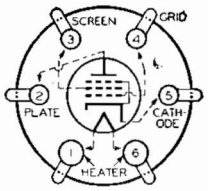


RCA Cunningham Radiotron RADIO TUBES

Type 42



BOTTOM VIEW

POWER-AMPLIFIER PENTODE

The 42 is a heater-cathode type of power-amplifier pentode for use in the audio-output stage of a-c receivers. It is capable of giving large power output with a relatively small input-signal voltage. Because of the heater-cathode construction, a uniformly low hum-level is attainable in power amplifier design.

CHARACTERISTICS

HEATER VOLTAGE (A. C. or D. C.)	6.3	Volts
HEATER CURRENT	0.7	Ampere
BULB (For dimensions, see Page 151, Fig. 11)		ST-14
BASE		Medium 6-Pin

Other characteristics of this type are the same as for the type 2A5.

INSTALLATION

The **base** pins of the 42 fit the standard six-contact socket which may be installed to hold the tube in any position. Sufficient ventilation should be provided to prevent overheating.

The **heater** is designed to operate at 6.3 volts. In a series-heater circuit employing several 6.3-volt types and one or more 42's, the heaters of the 42's should be placed on the positive side. Furthermore, since most 6.3-volt types have 0.3-ampere heaters, a bleeder circuit across these heaters is required to take care of the additional 0.4-ampere heater current of the 42. Each 6.3-volt tube of the 0.3-ampere type in the series circuit should therefore, be shunted by a bleeder resistance of 16 ohms.

APPLICATION

Refer to APPLICATION on the type 2A5. For an additional curve, see page 39.

AVERAGE CHARACTERISTICS