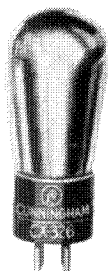


Cunningham RADIO TUBES

CX-326

AMPLIFIER



The '26 is an amplifier tube containing a filament designed for operation on alternating current. It is useful as a radio-frequency amplifier and as a transformer-coupled audio-frequency amplifier. The '26 is not ordinarily suitable for use as a detector or power output tube.

CHARACTERISTICS

FILAMENT VOLTAGE (A. C. or D. C.)	1.5	Volts
FILAMENT CURRENT	1.05	Amperes
PLATE VOLTAGE	90 135 180 max.	Volts
GRID VOLTAGE*	-7 -10 -14.5	Volts
PLATE CURRENT	2.9 5.5 6.2	Milliamperes
PLATE RESISTANCE	8900 7600 7300	Ohms
AMPLIFICATION FACTOR	8.3 8.3 8.3	
MUTUAL CONDUCTANCE	935 1100 1150	Micromhos
GRID-PLATE CAPACITANCE	8.1	$\mu\text{mf.}$
GRID-FILAMENT CAPACITANCE	3.5	$\mu\text{mf.}$
PLATE-FILAMENT CAPACITANCE	2.2	$\mu\text{mf.}$
MAXIMUM OVERALL LENGTH		4 $\frac{1}{16}$ "
MAXIMUM DIAMETER		1 $\frac{3}{16}$ "
BULB (See page 42, Fig. 8)		S-14
BASE		Medium 4-Pin

* Grid voltage measured from mid-point of a-c operated filament.

INSTALLATION

The base pins of the '26 fit the standard four-contact socket. The socket should be installed so that the tube will operate in a vertical position. For socket connections, see page 39, Fig. 1.

The coated filament of the '26 should be operated at the rated voltage of 1.5 volts from the a-c line through a step-down transformer. For certain applications, it may be operated with a d-c filament power source.

When the filament is a-c operated, the plate and grid return lead should be brought (1) to the movable arm of a 20 to 40 ohm potentiometer across the filament winding, or (2) to the mid-tap of the filament winding itself. When d.c. is used to operate the filament, the grid and plate returns should be connected to the negative filament terminal.

APPLICATION

As an **audio-frequency amplifier**, the '26 should be used with transformer coupling in order to secure the greatest amplification per stage.

As a **radio-frequency amplifier**, the '26 may be operated at plate voltages as low as 90 volts with good results.

THE CUNNINGHAM RADIO TUBE MANUAL

AVERAGE PLATE CHARACTERISTICS

