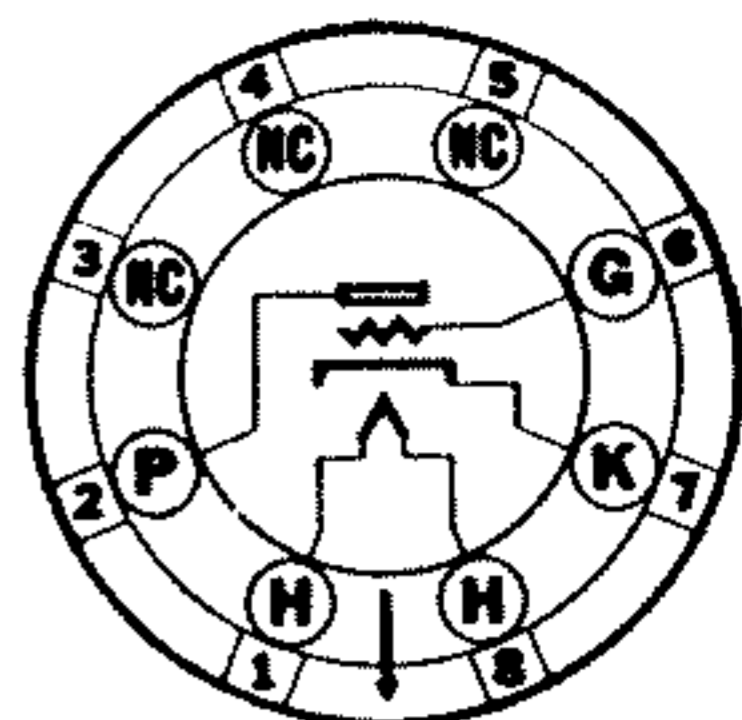
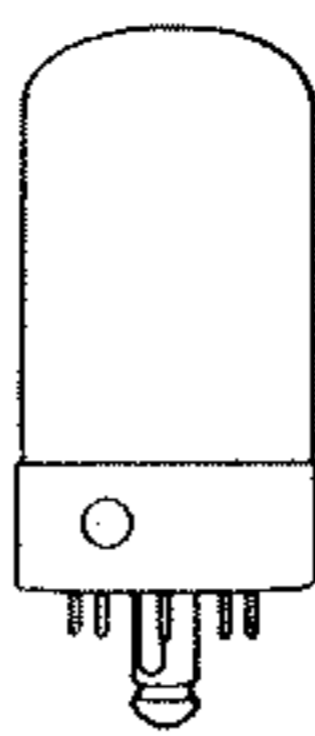


# 7A4 Sylvania Type

MEDIUM-MU TRIODE

GT EQUIVALENT 6J5GT



5AC-L-0

## PHYSICAL SPECIFICATIONS

Base.....	Lock-In 8 Pin
Bulb.....	T-9
Maximum Overall Length.....	2 <sup>25</sup> / <sub>32</sub> "
Maximum Seated Height.....	2 <sup>1</sup> / <sub>4</sub> "
Mounting Position.....	Any

Heater Voltage (Nominal) AC or DC.....	7.0 Volts
Heater Current (Nominal).....	0.32 Ampere
Maximum Plate Voltage.....	300 Volts
Maximum Plate Dissipation.....	2.5 Watts
Minimum External Grid Bias Voltage.....	0 Volt
Maximum Heater-Cathode Voltage.....	90 Volts

### Direct Interelectrode Capacitances:\*

Grid to Plate.....	4.0 $\mu$ f.
Grid to Cathode.....	3.4 $\mu$ f.
Plate to Cathode.....	3.0 $\mu$ f.

\*With 1<sup>5</sup>/<sub>16</sub>" diameter shield (RMA Std. M8-308) connected to cathode.

## TYPICAL OPERATION CLASS A AMPLIFIER

Heater Voltage.....	6.3	6.3 Volts
Heater Current.....	0.3	0.3 Ampere
Plate Voltage.....	90	250 Volts
Grid Voltage.....	0	-8 Volts
Self-Bias Resistor.....	0	900 Ohms
Plate Current.....	10	9 Ma.
Plate Resistance (Approximate).....	6700	7700 Ohms
Mutual Conductance.....	3000	2600 $\mu$ mhos
Amplification Factor.....	20	20

## APPLICATION

Sylvania Type 7A4 is a medium-mu triode designed for use as an oscillator, detector or amplifier. It is quite similar to types 6J5GT but gives improved performance especially at the higher frequencies, due to the lock-in type of construction. This construction results in shorter leads, lower capacitances, and lower base losses. This tube may be used successfully to about 225 mc. as an oscillator. For higher frequencies, types 7E5/1201 or 7F8 should be considered.

Tabulated data for resistance coupled operation will be found on page 46.

