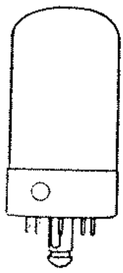
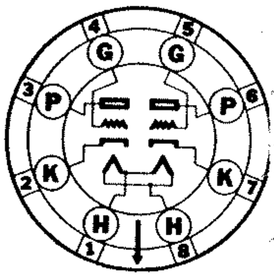
7AF7 Sylvania Type

DOUBLE TRIODE AMPLIFIER





8AC-L-0

PHYSICAL SPECIFICATIONS

Base	Lock-In 8 Pin
Bulb	T-9
Maximum Overall Length	$2^{25}/_{32}$"
Maximum Seated Height	$2\ 1/4$"
Mounting Position	Any

RATINGS

Heater Voltage AC or DC (Nominal)	7.0 Volts
Heater Current	0.320 Ampere
Maximum Plate Voltage	300 Volts
Maximum Plate Dissipation (Per Plate)	2.5 Watts
Minimum External Grid Bias	0 Volt
Maximum Heater-Cathode Voltage	90 Volts

Direct Interelectrode Capacitances:*

Grid to Plate (Per Section)	2.3 μμf.
Input (Per Section)	2.2 μμf.
Output (Per Section)	1.6 μμf.
Grid 1 to Grid 2	0.20 μμf. Max.
Plate 1 to Plate 2	0.60 μμf. Max.
Grid 1 to Plate 1	0.06 μμf. Max.
Grid 2 to Plate 1	0.10 μμf. Max.

*Measured without shield.

TYPICAL OPERATION

CLASS A_1

PER SECTION EXCEPT HEATER

Heater Voltage (AC or DC)	6.3	6.3	6.3 Volts
Heater Current	0.300	0.300	0.300 Ampere
Plate Voltage	100	100	250 Volts
Grid Voltage	0	−3	−10 Volts
Self-Bias Resistor	.....	600	1100
Plate Current	10.8	5.0	9.0 Ma.
Mutual Conductance	2600	1900	2100 μmhos
Amplification Factor	17	16	16
Plate Resistance	6500	8400	7600 Ohms

APPLICATION

Sylvania Type 7AF7 is a single-ended duo triode designed for use either as a phase inverter or as a voltage amplifier. The plate, grid, and cathode connections of each triode are brought out separately to permit use in special circuits.

The characteristics of Sylvania Type 7AF7 are very similar to those of Type 7N7. It has somewhat lower interelectrode capacities which may be desirable for some applications that do not require the higher mutual conductance of Type 7N7.