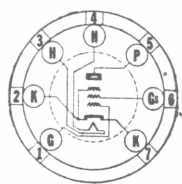


6AK5 Sylvania Type

RF AMPLIFIER PENTODE



7BD-0-2 & 7

PHYSICAL SPECIFICATIONS

Base.....	Miniature Button 7 Pin
Bulb.....	T-5 1/2
Maximum Overall Length.....	1 3/4
Maximum Seated Height.....	1 1/2
Mounting Position.....	Any

RATINGS

Heater Voltage AC or DC.....	6.3 Volts
Heater Current.....	0.175 Ampere
Maximum Plate Voltage.....	180 Volts
Maximum Screen Volts.....	140 Volts
Maximum Plate Dissipation.....	1.7 Watts
Maximum Screen Dissipation.....	0.5 Watt
Maximum DC Heater-Cathode Voltage.....	90 Volts
Maximum Cathode Current.....	18 Ma.

Direct Interelectrode Capacitances:*

Grid to Plate.....	0.02 μ mf. Max.
Input.....	4.0 μ mf.
Output.....	2.8 μ mf.

*With a close fitting shield connected to the cathode.

TYPICAL OPERATION CLASS A₁ AMPLIFIER

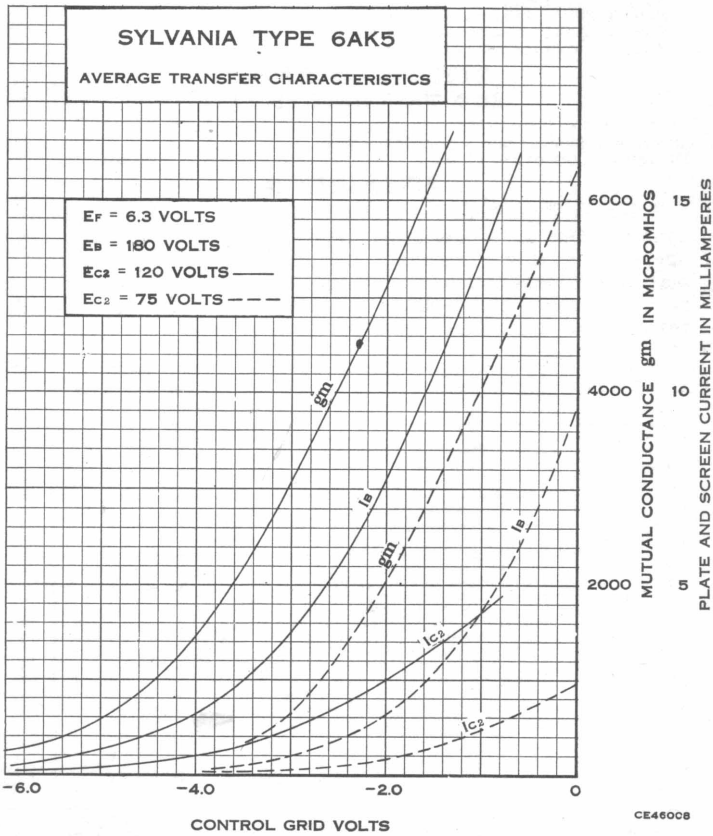
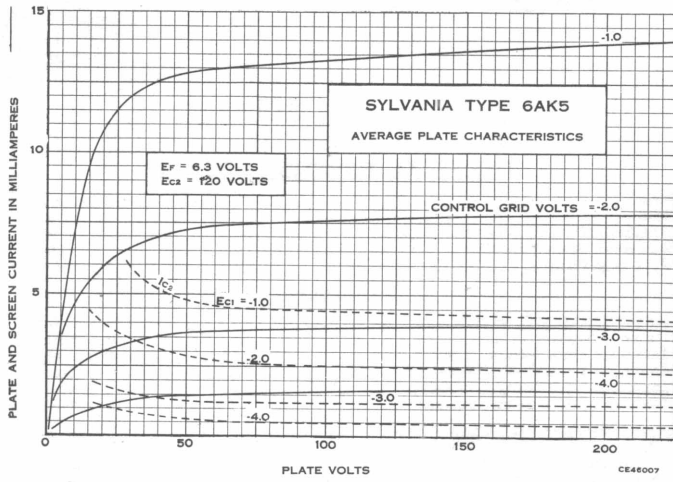
Heater Voltage.....	6.3	6.3	6.3 Volts
Heater Current.....	0.170	0.175	0.175 Ampere
Plate Voltage.....	125	150	180 Volts
Screen Voltage.....	120	140	120 Volts
Self-Bias Resistor**.....	200	330	200 Ohms
Plate Resistance (Approximate).....	0.34	0.42	0.69 Megohm
Mutual Conductance.....	5000	4300	5100 μ mhos
Plate Current.....	7.5	7.0	7.7 Ma.
Screen Current.....	2.5	2.2	2.4 Ma.

**Fixed Bias Operation is not recommended.

APPLICATION

Sylvania Type 6AK5 is a high-frequency, high mutual conductance pentode of miniature style of construction. It is intended for use at frequencies up to approximately 400 megacycles and the dual cathode leads, when properly used, help to isolate input and output circuits, thereby permitting greater gain per stage.

(Cont.) **6AK5**



SYLVANIA RADIO TUBES