

Hygrade Sylvania

TECHNICAL DATA SYLVANIA TYPE 6A5G Power Amplifier

TENTATIVE CHARACTERISTICS

Heater Voltage AC or DC	6.3	Volts
Heater Current	1.0	Ampere

Direct Interelectrode Capacitances (Approx):

Grid to Plate	16	$\mu\text{F.}$
Input	7	$\mu\text{F.}$
Output	5	$\mu\text{F.}$

OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A AMPLIFIER (ONE TUBE)

Heater Voltage	6.3	Volts
Plate Voltage	250	Volts Max.
Grid Voltage	-45	Volts
Plate Current	60	Ma.
Plate Resistance	800	Ohms
Mutual Conductance	5250	μmhos
Amplification Factor	4.2	
Load Resistance	2500	Ohms
Power Output (With 5% 2nd Harmonic)	3.75	Watts

PUSH-PULL CLASS AB AMPLIFIER (TWO TUBES)

	Fixed Bias	Self-Bias
Heater Voltage	6.3	6.3 Volts
Plate Voltage	325	325 Volts
Grid Voltage	-68	Volts
Self-Bias Resistor		850 Ohms
Plate Current Per Tube *	40	40 Ma.
Plate to Plate Load Resistance	3000	5000 Ohms
Power Output	15	10 Watts
Total Harmonic Distortion	2.5	5 Per Cent

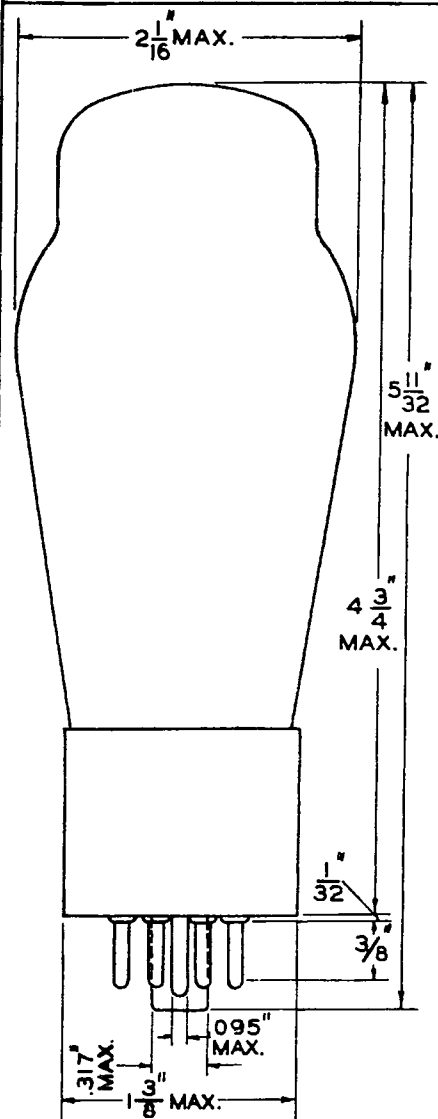
* For zero input signal.

CIRCUIT APPLICATION

Sylvania 6A5G is a heater type power amplifier triode designed for the same service as Types 6A3 and 6B4G. The ratings and characteristics are identical to those of Type 6B4G except for the Class A power rating which is 3.75 watts for Type 6A5G. The tube is equipped with an octal base. All eight pins are present, although pin Nos. 1, 4, and 6 are not connected. This tube is quite free from hum so that no potentiometer is required for hum balance.

Any of the conventional methods may be used for the input coupling provided that the resistance added in the grid return is not excessive. The d-c resistance in this circuit should be less than 0.5 megohm for a self-biased arrangement; with fixed bias the limit is 10,000 ohms.

SYLVANIA
6A5G



TUBE AND BASE DIAGRAM
(BOTTOM VIEW)

