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	μμΕ.
Input	7	$\mu\mu F$.
Output	5	μμΕ.

OPERATING CONDITIONS AND CHARACTERISTICS CLASS A AMPLIFIER (ONE TUBE)

6.3	Volts
250	Volts Max.
-45	Volts
60	Ma.
800	Ohms
5250	μ mhos
4.2	
2500	Ohms
3.75	Watts
	250 -45 60 800 5250 4.2 2500

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	e 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.

