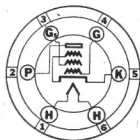


Sylvania

TYPE 2A5

POWER AMPLIFIER



CHARACTERISTICS

Heater Voltage AC or DC	2.5 Volts
Heater Current	1.75 Amperes
Maximum Over-all Length	4 1/8"
Maximum Diameter	1 1/8"
Bulb	ST-14
Base—Medium 6-Pin	6-B

Operating Conditions and Characteristics:

CLASS A POWER AMPLIFIER PENTODE OPERATION

Heater Voltage	2.5	2.5 Volts
Plate Voltage	250	315 Volts
Grid Voltage	-16.5	-22.0 Volts
Screen Voltage	250	315 Volts
Plate Current	34	42 Ma.
Screen Current	7.5	8.5 Ma.
Plate Resistance	79000	100,000 Ohms
Mutual Conductance	2350	2600 μ mhos
Amplification Factor	185	260
Load Resistance	7000	7000 Ohms
Power Output	3.0	5.0 Watts

TRIODE OPERATION

	Single	Push-Pull
Heater Voltage	2.5	2.5 Volts
Plate Voltage	250	350 Volts
Grid Voltage	-20	-38 Volts
Screen	Tied to Plate at Socket	
Plate Current	33	28* Ma.
Plate Resistance	2700	Ohms
Mutual Conductance	2300	μ mhos
Amplification Factor	6.2	
Load Resistance	3000	8000p Ohms
Power Output	0.65	15s Watts

*Plate current per tube at zero signal.

p—Plate to plate.

s—Signal voltage 55 volts (RMS) per grid. Total distortion 5%.

CIRCUIT APPLICATION

Sylvania 2A5 is an output pentode of the cathode type, identical in characteristics and ratings to Type 42, except for the heater which is operated at 2.5 volts. The 2A5 is built with the same internal construction as the 42 which assures duplication in every respect of electrical characteristics. When operated under similar conditions identical performance may be expected from the 2A5 or the 42.

The 2A5 is adaptable for use in the output stage of a-c operated household receivers. For more detailed information of the 2A5 refer to the CIRCUIT APPLICATION for Type 42.