## Sylvania

# TYPE 6N7

# CLASS B

## POWER AMPLIFIER





#### CHARACTERISTICS

Heater Voltage AC or DC.							6.3	Volts
Heater Current			-				0.8	Ampere
Maximum Over-all Length					2			31/4"
Maximum Diameter								15"
Base—Small Octal 8-Pin .						,E		8-B

## Operating Conditions and Characteristics:

# CLASS B POWER AMPLIFIER Heater Voltage 6.3 Volts Plate Voltage 300 Volts Dynamic Peak Plate Current (per Plate) 125 Ma. Average Plate Dissipation 10 Watts

### Typical Operation:

	-								
	oltage.					250	300	Volts	
Grid V	oltage .					0	/ 0	Volts	
	Plate Cur					14	17.5	Ma.	
	esistance					8000	10000	Ohms	
Power (	Output*			. 1		8	10	Watts	

\*With average input of 350 milliwatts applied between grids.

#### CLASS A DRIVER

(Both grids and both plates connected together at the socket).

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Heater Voltage							6.3	Volts
Plate Voltage						250	294	Volts
Grid Voltage						-5	-6	Volts
Plate Current						6	7	Ma.
Plate Resistance	е					11300	11000	Ohms
Mutual Conduc	tan	ce				3100	3200	μmhos
Amplification F	act	or				35	25	

#### CIRCUIT APPLICATION

Sylvania Type 6N7 is the metal tube equivalent of Type 6A6. It is a heater type Class B output tube, consisting of two triode units in a single bulb.

Type 6N7 is used primarily as a Class B output tube in a-c operated receivers, and will also find application in automobile

receivers properly designed for its characteristics.

By connecting the triode elements in parallel, Type 6N7 may be employed as a Class A tube, supplying sufficient power to drive another 6N7 in a Class B output stage. The driver plate load should be two to four times the plate resistance, the value depending upon the design of the Class B stage. The maximum d-c resistance in the grid circuit should not exceed 0.5 megohm, when the tube is self-biased. With fixed bias the value should be limited to 0.1 megohm.

Other special applications, such as its use as a cascade amplifier or combination voltage amplifier and phase inverter, are similar to those applying to Type 6A6 and reference may be made to

the notes on page 35.