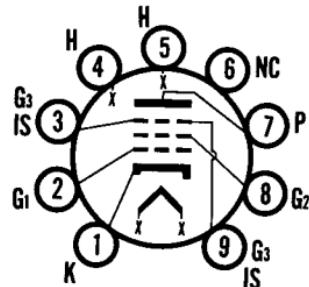




SYLVANIA TYPE 6GK6

BEAM POWER PENTODE



9GK

MECHANICAL DATA

Bulb.....	T-6½
Base.....	E9-1, Miniature Button 9-Pin
Outline.....	6-4
Basing.....	9GK
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS AND RATINGS

Characteristics

Heater Voltage ¹	6.3 Volts
Heater Current ²	760 Ma

Ratings (Design Maximum Values)

Heater Voltage ³	6.3 ± 0.6 Volts
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total D C and Peak.....	100 Volts Max.
Heater Positive with Respect to Cathode	
Total D C and Peak.....	100 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate.....	0.14 μuf Max.
Input.....	10 μuf
Output.....	7 μuf

RATINGS (Design Maximum Values)

Plate Voltage ⁴	330 Volts Max.
Grid No. 2 Voltage ⁴	330 Volts Max.
Negative Grid No. 1 Voltage.....	100 Volts Max.
Plate Dissipation.....	13.2 Watts Max.
Grid No. 2 Dissipation (Average).....	2 Watts Max.
Grid No. 2 Dissipation (Peak).....	4 Watts Max.
Cathode Current.....	65 Ma Max.
Grid No. 1 Circuit Resistance	
Fixed Bias.....	0.3 Megohm Max.
Cathode Bias.....	1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	Pentode Operation		
	Single		Class AB1 Push-Pull
	Tube Class A1	Class AB1 Push-Pull	
250	250	300	Volts
250	250	300	Volts
-7.3	—	—	Volts
135	130	130	130 Ohms
4.3	8	8	10 Volts
48	62	62	72 Ma
49.5	75	75	92 Ma
5.5	7.0	7.0	8 Ma
10.8	15	15	22 Ma
11.3K	—	—	μmhos
19	—	—	—
38K	—	—	Ohms
5.2K	—	—	Ohms
—	8K	8K	8K Ohms
5.7	11	11	17 Watts
10	3.0	3.0	4.0 Percent

NOTES:

- For parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater voltage.
- The bogey value of current is obtained when operating the heater at the specified 6.3 volts.
- Heater voltage supply variations shall be restricted to maintain heater voltage within the specified tolerance.

SYLVANIA TYPE 6GK6 (Cont'd)

4. When the heater and positive voltages are obtained from a storage battery by means of a vibrator, the maximum values of the plate and Grid No. 2 Voltages are 275 volts and that of the plate dissipation 9.9 watts.
5. Measured from Grid No. 2 to Plate.

APPLICATION

The Sylvania Type 6GK6 is a beam power pentode audio Amplifier designed for service in the output stage of high quality audio amplifiers or other equipment requiring high power output at relative low distortion.