SYLVANIA TYPE 12AC6
Remote Cutoff Pentode

MECHANICAL DATA

Bulb
Base
Outline
Basing
Cathode
Mounting Position
T-5 1/4
E7-1, Miniature Button 7-Pin
5-2
78K
Coated Unipotential
Any

ELECTRICAL DATA

HEATER CHARACTERISTICS
Heater Voltage
Heater Current
Heater-Cathode Voltage (Design Center Values)
Heater Negative with Respect to Cathode
Heater Positive with Respect to Cathode
12.6 Volts
150 Ma
30 Volts Max.
30 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate
Input
Output
0.004
4.3
5.0
0.005 μF
4.3 μF
5.0 μF

Unshielded

RATINGS (Design Center Values)
Plate Voltage
Grid No. 2 Voltage
Cathode Current
Grid No. 1 Circuit Resistance
30 Volts Max.
30 Volts Max.
20 Ma Max.
10 Megohms Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A, Amplifier
Plate Voltage
Grid No. 3 Voltage (Connected to Cathode at Socket)
Grid No. 2 Voltage
Grid No. 1 Voltage
Grid No. 1 Resistor
Plato Current
Grid No. 2 Current
Transconductance
Plate Resistance (approx.)
Grid No. 1 Voltage for Gm = 10 μmhos (approx.)
Grid No. 3 Voltage for Gm = 10 μmhos (approx.)
Ec3 = 0
Ec1 = 0
12.6 Volts
0 Volts
12.6 Volts
2.2 Megohms
550 μA
200 μA
730 μmhos
0.5 Megohm
-5.2 Volts
-3.7 Volts

NOTES:
1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Shield No. 316.
3. Average contact potential is developed across the specified resistor.
4. Measured from Grid No. 1 to plate.

APPLICATION NOTES

The Sylvania Type 12AC6 is a miniature remote cutoff pentode intended for use as an RF or IF amplifier.
It is designed for operation where the heater, plate and screen voltages are supplied directly from a 12 volt automotive storage battery.