Hygrade Sylvania

CORPORATION

TECHNICAL DATA

SYLVANIA TYPE 6S7G

Super Control Amplifier

CHARACTERISTICS

Heater Voltage AC or DC 6.3 Volts
Heater Current 0.150 Ampere
Direct Interelectrode Capacitances:
  Grid to Plate (with tube shield) 0.010 μF. Max.
  Input 4.7 μF.
  Output 6.5 μF.

OPERATING CONDITIONS AND CHARACTERISTICS

Heater Voltage 6.3 6.3 Volts
Plate Voltage 100 250* Volts
Grid Voltage -3.0 -3.0 Volts Min.
Screen Voltage 100 100 Volts Max.
Suppressor Connected to cathode at socket
Plate Current 8.0 8.2 Ma.
Screen Current 2.2 2.0 Ma.
Plate Resistance 0.25 0.8 Megohm
Mutual Conductance 1500 1600 μmhos
Amplification Factor 375 1280
Grid Voltage** -40 -40 Volts

* Maximum
** Grid Voltage for mutual conductance of 10 μmhos.

CIRCUIT APPLICATION

Sylvania 6S7G is a new r-f pentode in which the heater current rating is only 0.150 amperes. The tube has a remote plate current cut-off and is suitable for operation as an r-f or i-f amplifier or first detector in a-c, AC-DC, d-c and automobile radio receivers. The characteristics are similar to those for Type 6D6 so that the circuit applications are well known and do not require repetition in this bulletin.

from RMA release #76, June 12, 1936

9-29-36