SYLVANIA TYPES

- 6GW5
- 4GW5
- 3GW5
- 2GW5

MECHANICAL DATA

Bulb ........................................... T-5½
Base .......................................... E7-1, Miniature Button 7-Pin
Outline ........................................ 5-2
Basing ......................................... 76K
Cathode ....................................... Coated Unipotential
Mounting Position ......................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Operation | 2GW5 | 3GW5 | 4GW5 | 6GW5
--- | --- | --- | --- | ---
Heater Voltage | 2.45 | 3.0 | 4.2 | 6.3 Volts
Heater Current | 600 | 450 | 300 | 190 Ma
Heater Warm-up Time | 11 | 11 | 11 | Sec.
Maximum Heater-Cathode Voltage
Heater Negative with Respect to Cathode | Total D C and Peak | 100 Volts
Heater Positive with Respect to Cathode | Total D C and Peak | 100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

Input: g to (h+k+I.S.+E.S.) | 0.50 μuf
Output: p to (h+k+I.S.+E.S.) | 5.5 μuf
Plate to Cathode .......................... 4.0 μuf

RATINGS (Design Maximum Values)

Plate Voltage .................................. 200 Volts Max.
Plate Dissipation ............................ 2.5 Watts Max.
D C Cathode Current .......................... 25 Ma Max.
Negative Grid Voltage ........................ 50 Volts Max.
Grid Circuit Resistance (Self Bias)........ 1.0 Megohms Max.
Control grid to cathode spacing on this type is of such close magnitude as to preclude
the use of voltage between these elements of more than 30 volts D C or peak A C
in commercial tube checkers and shorts indicating devices particularly where
mechanical excitation of the tube is utilized.

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

Plate Voltage .................................. 135 Volts
Plate Voltage .................................. -1.0 Volts
Plate Current .................................. 12.5 Ma
Transconductance ............................ 15,000 μmhos
Amplification Factor .......................... 70
Plate Resistance (approx.) ..................... 5800 Ohms
Ec for Gm = 150 μmhos (approx.)............. -5.0 Volts
Ec for Gm = 1500 μmhos (approx.) .......... -2.5 Volts

APPLICATION

The Sylvania Types 2GW5, 3GW5, 4GW5, and 6GW5 are frame grid gain con-
trolled triodes designed for use as VHF RF amplifiers at a B + of 135 volts. Features
of the design include: A partial shield between the grid and plate which lowers the
capacitance between these two elements and promotes ease of neutralization and
low input capacitance. Higher input impedance and reduced grid inductance is
assured by virtue of dual grid leads.