Hygrade Sylvania
CORPORATION

TECHNICAL DATA
SYLVANIA TYPE 6D8G
Pentagrid Converter

TENTATIVE RATINGS AND CHARACTERISTICS

Heater Voltage AC or DC 6.3 Volts
Heater Current 0.150 Ampere
Direct Interelectrode Capacitances:
- Grid G to plate (with tube shield) 0.30 μF.
- Grid G to Grid G (with tube shield) 0.20 μF.
- Grid G to Grid G (with tube shield) 0.15 μF.
- Grid G to Grid G 1.0 μF.
- Grid G to all other electrodes (r-f input) 7.0 μF.
- Grid G to all other electrodes (Osc. Output) 6.0 μF.
- Grid G to all other electrodes (Osc. Input) 7.0 μF.
- Plate to all other electrodes (Mixer Output) 9.0 μF.

OPERATING CONDITIONS AND CHARACTERISTICS

Heater Voltage 6.3 6.3 Volts
Plate Voltage 100 250° Volts
Control Grid Voltage (G) -1.5 -3.0 Volts Min.
Screen Voltage (G) 50 100 Volts Max.
Anode Grid Voltage (G) 100* 250* Volts
Oscillator Grid Resistor (G) 50000 50000 Ohms
Plate Current 1.0 3.0 Ma.
Screen Grid Current 1.7 3.5 Ma.
Anode Grid Current 1.8 4.5 Ma.
Oscillator Grid Current 0.25 0.7 Ma.
Cathode Resistor 300 500 Ohms
Plate Resistance 0.55 0.32 Megohm
Conversion Conductance 300 500 μhos
Control Grid Voltage for 2 μhos Conversion Conductance -20 -40 Volts (Approx)

* Maximum
* Anode grid supply voltage with 20,000 ohms in series with G.

CIRCUIT APPLICATION

Sylvania 6D8G is a new pentagrid converter tube with characteristics very similar to those for Types 6A7 and 6A8G. The principal difference in ratings appears in the heater current which for Type 6D8G is only 0.150 ampere.

The uses for this tube parallel those for the other 6.3 volt tubes having this construction. The circuit applications are well known and do not require repetition in this bulletin.

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