THE 6GV5 IS A COMPACTRON BEAM-POWER PENTODE EMPLOYING A 12 PIN T-12 ENVELOPE. IT IS DESIGNED PRIMARILY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE: (G1 TO P) 0.6 pf
INPUT: G1 TO (H+K+G2+B,P) 16 pf
OUTPUT: P TO (H+K+G2+B,P) 7.0 pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS 6.3 VOLTS 1200 MA

HEATER SUPPLY LIMITS:
VOLTAGE OPERATION 6.3 ± 0.6 VOLTS

MAXIMUM HEATER CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE TOTAL DC AND PEAK 200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE DC 100 VOLTS
TOTAL DC AND PEAK 200 VOLTS

CONTINUED ON FOLLOWING PAGE
**TUNESOL**

CONTINUED FROM PRECEDING PAGE

**MAXIMUM RATINGS**

*Design maximum values - see EIA standard RS-239*

**HORIZONTAL-DEFLECTION AMPLIFIER SERVICE**

- DC PLATE-SUPPLY VOLTAGE (BOOST + DC POWER SUPPLY) 770 VOLTS
- PEAK POSITIVE PULSE PLATE VOLTAGE 6500 VOLTS
- PEAK NEGATIVE PULSE PLATE VOLTAGE 1500 VOLTS
- GRID 2 VOLTAGE 220 VOLTS
- NEGATIVE DC GRID 1 VOLTAGE 55 VOLTS
- PEAK NEGATIVE GRID 1 VOLTAGE 330 VOLTS
- PLATE DISSIPATION B 17.5 WATTS
- GRID 2 DISSIPATION 3.5 WATTS
- DC CATHODE CURRENT 175 MA.
- PEAK CATHODE CURRENT 550 MA.
- GRID 1 CIRCUIT RESISTANCE 1.0 MEGOHMS
- BULB TEMPERATURE AT HOTTEST POINT 220 C

**TYPICAL OPERATING CHARACTERISTICS**

**AVERAGE CHARACTERISTICS**

- PLATE VOLTAGE 5000 60 250 VOLTS
- GRID 2 VOLTAGE 150 150 150 VOLTS
- GRID 1 VOLTAGE --- 0 C -22.5 VOLTS
- PLATE RESISTANCE, APPROX. --- --- 18000 OHMS
- TRANSCONDUCTANCE --- --- 7500 μA/MA.
- PLATE CURRENT --- 345 65 MA.
- GRID 2 CURRENT --- 27 1.8 MA.
- GRID 1 VOLTAGE, APPROX. Ib=1.0 MA. -100 --- -42 VOLTS
- TRIODE AMPLIFICATION FACTOR D --- --- 4.4

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B. In stages operating with grid-leak bias, an adequate cathode-bias resistor or other suitable means is required to protect the tube in the absence of excitation.

C. Applied for short interval (two seconds maximum) so as not to damage tube.

D. Triode connection (screen tied to plate) with Eb=Ec2=150 VOLTS and Ec1---22.5 VOLTS