THE 6JS6 IS A BEAM-POWER PENTODE IN THE T-12 COMPACTRON CONSTRUCTION. IT IS DESIGNED PRIMARY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. A SEPARATE CONNECTION IS PROVIDED FOR THE BEAM PLATES (GRID 3) TO MINIMIZE "SNI- VETS".

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE; (G1 TO P) 0.7 μf
INPUT: G1 TO (H + K + G2 + G3) 0.24 μf
OUTPUT: P TO (H + K + G2 + G3) 0.10 μf

HEATER CHARACTERISTICS AND RATINGS

AVERAGE CHARACTERISTICS 6.3 VOLTS 2.25 AMPS.

LIMITS OF APPLIED VOLTAGE 6.3 ± 0.6 VOLTS

HEATER-CATHODE VOLTAGE
HEATER POSITIVE WITH RESPECT TO CATHODE
DC COMPONENT 100 VOLTS
TOTAL DC AND PEAK 200 VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE
TOTAL DC AND PEAK 200 VOLTS

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MAXIMUM RATINGS
DESIGN-MAXIMUM VALUES - SEE EIA STANDARD RS-229
HORIZONTAL - DEFLECTION AMPLIFIER SERVICE

DC PLATE-SUPPLY VOLTAGE (BOOST + DC POWER SUPPLY) 990 VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE - ABSOLUTE MAXIMUM 7,500 VOLTS
PEAK NEGATIVE PULSE PLATE VOLTAGE 1,100 VOLTS
POSITIVE DC GRID 3 VOLTAGE 70 VOLTS
GRID 2 VOLTAGE 190 VOLTS
PEAK NEGATIVE GRID 1 VOLTAGE 250 VOLTS
PLATE DISSIPATION A 28 WATTS
GRID 2 DISSIPATION 5.5 WATTS
DC CATHODE CURRENT 315 MA.
PEAK CATHODE CURRENT 1,100 MA.

GRID 1 CIRCUIT RESISTANCE 1.0 MEGOHMS
BULB TEMPERATURE AT HottEST POINT ON BULB 225 °C

A - 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.

CHARACTERISTICS AND TYPICAL OPERATION

PLATE VOLTAGE 5,000 70 175 VOLTS
GRID 3 CONNECTED TO CATHODE AT SOCKET
GRID 2 VOLTAGE 125 125 125 VOLTS
GRID 1 VOLTAGE - 0 -25 VOLTS
PLATE CURRENT - 570 B 125 MA.
GRID 2 CURRENT - 34 B 4.5 MA.

GRID 1 VOLTAGE FOR I_b = 1.0 MA., APPROX. -140 - -54 VOLTS
TRIODE AMPLIFICATION FACTOR C - 3

B - VALUES MEASURED BY A METHODE INVOLVING A RECURRENT WAVEFORM SUCH THAT THE PLATE AND GRID 2 DISSIPATIONS WILL BE KEPT WITHIN RATINGS IN ORDER TO PREVENT DAMAGE TO THE TUBE.

C - TRIODE CONNECTION (Grid 2 tied to plate) WITH E_b = E_c2 = 125 VOLTS, AND E_c1 = -25 VOLTS.