Color Television Type

VERTICAL DEFLECTION AMPLIFIER

6JC5/6JB5/6HE5

Beam Power Pentode

Construction ............... Compactron T-12
Base ....................... Button 12 Pin, E12-74
Basing ....................... 12EY
Outline
Maximum Diameter .......... 1.562 In.
Maximum Seated Height .... 2.750 In.
Maximum Overall Height ... 3.125 In.

ELECTRICAL DATA

HEATER OPERATION

Heater Voltage .................. 6.3 Volts
Heater Current ................ 800 Ma
Maxmum 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

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (Max.) ........... 0.54 Pf
Input: g1 to (h + k + g2 + g3) ........ 9.5 Pf
Output: p to (h + k + g2 + g3) .......... 7.0 Pf

RATINGS (Design Maximum Rating System)

Vertical Deflection Amplifier(1)

Plate Voltage (Max.) ............ 350 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.) .... 2500 Volts
Grid No. 2 Voltage (Max.) ....... 300 Volts
Plate Dissipation (Max.)(2) .......... 19 Watts
Grid No. 2 Input (Max.)(3) ......... 2.75 Watts
Average Cathode Current (Max.) ... 75 Ma
Peak Cathode Current (Max.) ...... 260 Ma
Bulb Temperature (Max.) ........ 200 °C

Grid Circuit Resistance
Fixed Bias (Max.) ................ 1.0 Megohm
Cathode Bias (Max.) .......... 2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage .................. 250 Volts
Grid No. 2 Voltage ............... 250 Volts
Grid No. 1 Voltage .............. -20 Volts
Plate Current ................ 43 Ma
Grid No. 2 Current .......... 3.5 Ma
Transconductance ................ 4100 µhmhos
Plate Resistance (Approx.) ................................................. 5000 Ohms
Ec1 Voltage for Ib = 100 μa (Approx.) ..................................... -50 Volts

NOTES:
(1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
(2) In stages operating with grid-leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.