

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    |
| 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 |

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  |

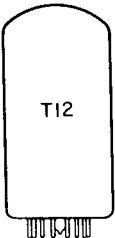
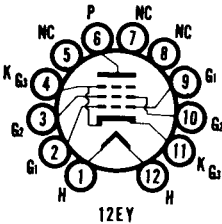
RATINGS (Design Maximum Rating System)

Vertical Deflection Amplifier<sup>(1)</sup>

|                                                    |             |
|----------------------------------------------------|-------------|
| Plate Voltage (Max.) .....                         | 350 Volts   |
| Peak Positive Pulse Plate Voltage (Abs. Max.)..... | 2500 Volts  |
| Grid No. 2 Voltage (Max.) .....                    | 300 Volts   |
| Plate Dissipation (Max.) <sup>(2)</sup> .....      | 19 Watts    |
| Grid No. 2 Input (Max.) <sup>(2)</sup> .....       | 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 μmhos |



|                                                  |           |
|--------------------------------------------------|-----------|
| Plate Resistance (Approx.) .....                 | 5000 Ohms |
| Ec1 Voltage for Ib = 100 $\mu$ a (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.