Beam Power Tube

NOVAR TYPE

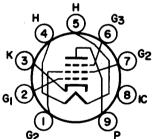
For Horizontal-Deflection-Amplifier Service in Low-B+ Black-and-White TV Receivers

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| Heater Characteristics and Ratings: Voltage (AC or DC) | |
|--|---------------|
| respect to cathode 200 max. volts Heater positive with | S |
| respect to cathode 200 ^a max. volts Direct Interelectrode Capacitances (Approx.) ^b | S |
| G1 to P | f |
| Mechanical: | |
| Operating Position |] !! !! |
| Bulb | 2 1 t |

Pin 1-Grid No.2 Pin 2-Grid No.1 Pin 3 - Cathode Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Grid No.3 Pin 7 - Grid No.2

Pin 8 - Do Not Use Pin 9 - Plate

Characteristics, Class A, Amplifier:

| | Triode Connection c | Pentode Connection | | | |
|----------------------|------------------------|-----------------------|-------|------------|--|
| Plate Voltage | 125 | 50 | 130 | volts | |
| Grid No.3 | Connected | | | | |
| Grid-No.2 Voltage | _ | | 125 | | |
| Grid-No.1 Voltage | -20 | 0 | -20 | volts | |
| Amplification Factor | 4.1 | _ | - | | |
| Plate Resistance | | | | | |
| (Approx.) | | | 12000 | ohms | |
| Transconductance | _ | _ | 10000 | μ mhos | |

| | Triode Connection c | Pentode Connection | | | | |
|--|------------------------|-----------------------------|--------------------|----------|--|--|
| Plate Current Grid-No.2 Current | | 525 d 32 d | 80 2 . 5 | ma ma | | |
| Grid-No.1 Voltage (Approx.) for plate | | | | | | |
| ma. = 1 | | - | -40 | volts | | |
| MARITANTAL REFLECTION AND LEVER | | | | | | |

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

| For operation in a 525-line, 30-frame systeme | |
|--|-------|
| DC Plate Supply Voltage 770 max. | volts |
| Peak Positive-Pulse Plate Voltage ^f 6500 max. | volts |
| Peak Negative-Pulse Plate Voltage 1500 max. | volts |
| DC Grid-No.3 (Suppressor-Grid) Voltage | |
| (See Operating Considerations) 75 max. | volts |
| DC Grid-No.2 (Screen-Grid) Voltage 220 max. | volts |
| DC Grid-No.1 (Control-Grid) Voltage: | |
| Negative-bias value 55 max. | volts |
| Peak Negative-Pulse Grid-No.1 Voltage 330 max. | volts |
| Cathode Current: | |
| Peak | ma |
| Average | ma |
| Grid-No.2 Input 3.5 max. | watts |
| Plate Dissipation ⁹ 17 max. | watts |
| Bulb Temperature (At hottest point | οС |
| on bulb surface) 220 max. | 90 |

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:
For grid-No.1-resistor-bias
operation. 2.2 max. megohms

- ^a The dc component must not exceed **1**00 volts.
- b Without external shield.
- $^{f c}$ With grid No.2 connected to plate at socket.
- d This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.
- e As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- f This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system 15 per cent of one horizontal scanning cycle is 10 microseconds.
- \boldsymbol{g} An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

OPERATING CONSIDERATIONS

In Horizontal-Deflection-Amplifier Service, a positive voltage may be applied to grid No.3 to reduce interference from "snivets" which may occur in both vhf and uhf television receivers. A typical value for this voltage is 30 volts.

DIMENSIONAL OUTLINE AND CURVES shown under Type 22JG6 also apply to the 6JG6

