

6HB6

Power Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts
 Current at heater volts = 6.3 0.760 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 200 max. volts
 Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances

(Approx.):^b

Grid No.1 to plate 0.18 $\mu\mu\text{f}$
 Grid No.1 to cathode, grid No.3, grid No.2, and heater 13.0 $\mu\mu\text{f}$
 Plate to cathode, grid No.3, grid No.2, and heater 8.0 $\mu\mu\text{f}$

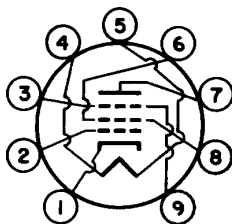
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 60 250 250 volts
 Grid No.3 *Connected to cathode at socket*
 Grid-No.2 Supply Voltage 250 125 250 volts
 Grid-No.1 Voltage 0 - - volts
 Cathode Resistor - 33 100 ohms
 Mu-Factor, Grid No.2 to Grid No.1 - - 33
 Plate Resistance (Approx.) - 28000 24000 ohms
 Transconductance - 24000 20000 μmhos
 Plate Current 150^c 40 40 ma
 Grid-No.2 Current 37^c 4.2 6.2 ma
 Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 100$ - -6.4 -13 volts

Mechanical:

Operating Position Any
 Type of Cathode Coated Unipotential
 Maximum Overall Length 3-1/16"
 Maximum Seated Length 2-13/16"
 Length, Base Seat to Bulb Top (Excluding tip) . . 2-7/16" \pm 3/32"
 Diameter 0.750" to 0.850"
 Dimensional Outline See *General Section*
 Bulb T6-1/2
 Basing Designation for BOTTOM VIEW 9PU

Pin 1-Cathode
 Pin 2-Grid No.1
 Pin 3-Grid No.3
 Pin 4-Heater
 Pin 5-Heater



Pin 6-Grid No.2
 Pin 7-Plate
 Pin 8-Grid No.2
 Pin 9-Grid No.3



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VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	350 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e	2500 max.	volts
GRID No.3 (SUPPRESSOR GRID)	<i>Connect to cathode at socket</i>	
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	300 max.	volts
GRID No.1 (CONTROL-GRID) VOLTAGE.	-100 max.	volts
GRID-No.2 INPUT	2 max.	watts
PLATE DISSIPATION	10 max.	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation.	1 max.	megohm
For cathode-bias operation.	2.2 max.	megohms

- ^a The dc component must not exceed 100 volts.
- ^b Without external shield.
- ^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- ^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- ^e This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

