

Power Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (<i>Design-Maximum Values</i>):			
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		μμf
Grid No.1 to cathode, grid No.3, grid No.2, and heater	13.0		μμf
Plate to cathode, grid No.3, grid No.2, and heater	8.0		μμf

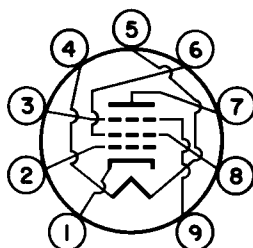
Characteristics, Class A₁ Amplifier:

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 μa = 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" ± 3/32"
Diameter.	0.750" to 0.850"
Dimensional Outline	See <i>General Section</i>
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



6HB6

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.

