

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
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Heater positive with respect to cathode.	200 ^a	max.	volts
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Direct Interelectrode Capacitances (Approx.):^b

Grid No.1 to plate.	0.18	μf
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Grid No.1 to cathode, grid No.3, grid No.2, and heater	13.0	μf
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Plate to cathode, grid No.3, grid No.2, and heater	8.0	μf
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Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	60	250	250	volts
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Grid No.3 *Connected to cathode at socket*

Grid-No.2 Supply Voltage.	250	125	250	volts
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Grid-No.1 Voltage	0	-	-	volts
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Cathode Resistor.	-	33	100	ohms
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Mu-Factor, Grid No.2 to Grid No.1	-	-	33	
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Plate Resistance (Approx.).	-	28000	24000	ohms
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Transconductance.	-	24000	20000	μmhos
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Plate Current	150 ^c	40	40	ma
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Grid-No.2 Current	37 ^c	4.2	6.2	ma
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Grid-No.1 Voltage (Approx.)

for plate μ _a = 100.	-	-6.4	-13	volts
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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 *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



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.

