

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $6.3 \pm 10\%$ volts

Current at 6.3 volts. 0.68 amp

Direct Interelectrode Capacitances

(Approx.):^aGrid No.1 to plate. 0.7 μf Grid No.1 to cathode & grid No.3,
grid No.2, and heater 8.5 μf Plate to cathode & grid No.3,
grid No.2, and heater 7 μf Characteristics, Class A₁ Amplifier:

Plate Voltage 50 250 volts

Grid-No.2 Voltage 250 250 volts

Grid-No.1 Voltage 0 -17.5 volts

Plate Resistance (Approx.). - 60000 ohms

Transconductance. - 4400 μmhos Plate Current 153^b 44 maGrid-No.2 Current 21^b 3 maGrid-No.1 Voltage (Approx.)
for plate $\mu\text{a} = 100$ - -48 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 3-7/16"

Maximum Seated Length 2-7/8"

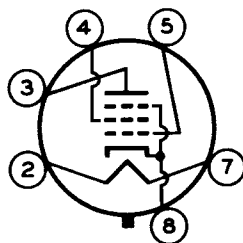
Maximum Diameter. 1-9/32"

Dimensional Outline See *General Section*

Bulb. T9

Base. Intermediate-Shell Octal 6-Pin,
Arrangement 2 (JEDEC Group 1, No.B6-81), orShort Intermediate-Shell Octal 6-Pin with External Barriers,
Arrangement 2 (JEDEC Group 1, No.B6-84)

Basing Designation for BOTTOM VIEW. 7S

Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grid No.2
Pin 5 - Grid No.1Pin 7 - Heater
Pin 8 - Cathode,
Grid No.3

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

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

DC PLATE VOLTAGE. 350 max. volts

PEAK POSITIVE-PULSE PLATE VOLTAGE^d. . . . 2500 max. volts

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DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . . .	300	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	180	max.	ma
Average	60	max.	ma
GRID-No.2 INPUT	2.75	max.	watts
PLATE DISSIPATION	11	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^e	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	200	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

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

^a Without external shield.

^b 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.

^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^d This rating is applicable where 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.

^e The dc component must not exceed 100 volts.

