

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

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

Current at 6.3 volts. 0.8 amp

Direct Interelectrode Capacitances

(Approx.):^aGrid No.1 to plate. 0.6 μf Grid No.1 to cathode & grid No.3,
grid No.2, and heater 9 μf Plate to cathode & grid No.3,
grid No.2, and heater 7 μf Characteristics, Class A₁ Amplifier:

Plate Voltage 60 250 volts

Grid-No.2 Voltage 250 250 volts

Grid-No.1 Voltage 0 -20 volts

Plate Resistance (Approx.) - 50000 ohms

Transconductance. - 4100 μmhos Plate Current 180^b 43 maGrid-No.2 Current 26^b 3.5 maGrid-No.1 Voltage (Approx.)
for plate $\mu\text{a} = 100$ - -50 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 3-7/16"

Maximum Seated Length 2-7/8"

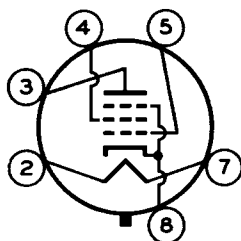
Maximum Diameter. 1-9/32"

Dimensional Outline See *General Section*

Bulb. T9

Base. Intermediate-Shell Octal 6-Pin,
Arrangement 2 (JEDEC Group 1, No. B6-81)

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

DC GRID-No.2 (SCREEN-GRID) VOLTAGE. 300 max. volts



6EZ5

PEAK NEGATIVE-PULSE GRID-No.1

(CONTROL-GRID) VOLTAGE. 250 max. volts

CATHODE CURRENT:

Peak. 260 max. ma

Average 75 max. ma

GRID-No.2 INPUT 2.75 max. watts

PLATE DISSIPATION 12 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.

