Beam Power Tube

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) ................. 6.3 ± 10% volts
Current at 6.3 volts ............. 1.2 amp
Mu-Factor, Grid No.2 to Grid No.1
for plate volts = 150, grid-No.2
volts = 150, grid-No.1 volts =
-22.5 .................. 4.4
Direct Interelectrode Capacitances
(Approx.)*:
Grid No.1 to plate ............... 0.5 µf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater .......... 17 µf
Plate to cathode & grid No.3,
grid No.2, and heater .......... 7 µf

Characteristics, Class A, Amplifier:
Plate Voltage ...................... 60 250 volts
Grid-No.2 Voltage ............... 150 150 volts
Grid-No.1 Voltage ............... 0 -22.5 volts
Plate Resistance (Approx.) .... - 15000 ohms
Transconductance .............. - 7100 µmhos
Plate Current ..................... 390b 70 ma
Grid-No.2 Current ............... 32b 2.1 ma
Grid-No.1 Voltage (Approx.) for
plate ma. = 1 ................... -42 volts

Mechanical:
Operating Position ............. Any
Maximum Overall Length ........ 4-1/4" 
Seated Length .................. 3-1/2" ± 3/16" 
Diameter ......................... 1.438" to 1.562" 
Bulb ................................ T12 
Cap ................................ Skirted Miniature (JEDEC No.C1-3) 
Base ................................ Short Medium-Shell Octal 6-Pin
with External Barriers, Style B, Arrangement 2
(JEDEC No.B6-122)
Basing Designation for BOTTOM VIEW ........ 6AM

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

Pin 7 - Heater
Pin 8 - Cathode, Grid No.3
Cap - Plate
HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system:

DC PLATE-SUPPLY VOLTAGE ........ 770 max. volts
PEAK POSITIVE-PULSE PLATE VOLTAGE 6500 max. volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE 1500 max. volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE 220 max. volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE -55 max. volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE 330 max. volts

CATHODE CURRENT:
  Peak ......................... 550 max. ma
  Average ........................ 175 max. ma

GRID-No.2 INPUT ................ 3.5 max. watts
PLATE DISSIPATION e ................ 17.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode 200 max. volts
  Heater positive with respect to cathode 200 max. volts

BULB TEMPERATURE (At hottest point on bulb surface) ........ 240 max. °C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:
  For grid resistor-bias operation 1 max. megohm

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 horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

e An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

f The dc component must not exceed 100 volts.
AVERAGE CHARACTERISTICS

$E_F = 6.3$ VOLTS
GRID-$N^2$ VOLTS=$150$

GRID-$N^2$ MILLIAMPERES ($I_{C2}$)

GRID-$N^2$ VOLTS $E_C=0$

PLATE MILLIAMPERES ($I_b$)

PLATE VOLTS

92CM-10859

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