Beam Power Tube

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 .......... 0.450 amp
Peak heater-cathode voltage:
Heater negative with respect to cathode .... 200 max. volts
Heater positive with respect to cathode .... 200 max. volts
Direct Interelectrode Capacitances (Approx.):
Grid No.1 to plate .................. 0.7 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 ................ 7.5 µf

Mechanical:
Operating Position .................. Any
Type of Cathode .................. Coated Unipotential
Maximum Overall Length .................. 3-5/16"
Maximum Seated Length .................. 1-9/32"
Maximum Diameter .................. 1-9/32"
Dimensional Outline .................. See General Section
Bulb .................................. T9

Bases (Alternates):
Intermediate-Shell Octal:
7-Pin, Arrangement 1 [JEDEC Group 1, No.B7-7]
Short Intermediate-Shell Octal with External Barriers:
7-Pin, Arrangement 1 [JEDEC Group 1, No.B7-59]
Basing Designation for BOTTOM VIEW ........... 7S

AF POWER AMPLIFIER — Class A1

Maximum Ratings, Design-Maximum Values:
PLATE VOLTAGE .................. 350 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE ........ 315 max. volts
GRID-No.2 INPUT .................. 2.2 max. watts
PLATE DISSIPATION .................. 14 max. watts

Typical Operation and Characteristics:
Plate Voltage .................. 60  250 volts
Grid-No.2 Voltage ............. 250  250 volts
Grid-No.1 (Control-Grid) Voltage ....... 0  -12.5 volts
Peak AF Grid-No.1 Voltage .............. 12.5 volts

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
3-62
7408

Zero-Signal Plate Current ....... 100°C 45 ma
Max.-Signal Plate Current ........ - 47 ma
Zero-Signal Grid-No.2 Current .... 22°C 4.5 ma
Max.-Signal Grid-No.2 Current .... - 7 ma
Plate Resistance (Approx.) ....... - 50000 ohms
Transconductance ............. - 4100 μmhos
Load Resistance ............... - 5000 ohms
Total Harmonic Distortion ....... - 7 %
Max.-Signal Power Output ....... - 4.5 watts

**Maximum Circuit Values:**

Grid-No.1-Circuit Resistance:
- For fixed-bias operation ........ 0.1 max. megohm
- For cathode-bias operation ..... 0.5 max. megohm

*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.