GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
  Voltage ....... 26.5 ....... ac or dc volts
  Current .......... 0.6 ....... amp
Direct Interelectrode Capacitances (Approx.):^o
  Grid No. 1 to plate .. 1.2 ....... μf
  Grid No. 1 to cathode & grid No. 3,
    grid No. 2, and heater^a ....... 16 ....... μf
  Plate to cathode & grid No. 3,
    grid No. 2, and heater^a ....... 13 ....... μf
  Grid No. 1 of unit No. 1 to
    grid No. 1 of unit No. 2 ....... 0.2 ....... μf
  Plate of unit No. 1 to
    plate of unit No. 2 ....... 0.2 ....... μf
  Grid No. 1 of unit No. 1 to
    plate of unit No. 2 ....... 0.2 ....... μf
  Grid No. 1 of unit No. 2 to
    plate of unit No. 1 ....... 0.2 ....... μf

Mechanical:
Mounting Position. ......... Any
Maximum Overall Length ....... 3-13/16"
Maximum Seated Length. ....... 3-1/4"
Maximum Diameter ....... 1-9/32"
Bulb. ^r ....... T-9

Base .... Intermediate-Shel Octal 8-Pin (JETEC No. 88-6),
  or Short Intermediate-Shel Octal 8-Pin (JETEC No. 88-58)
Basing Designation for BOTTOM VIEW ....... 8BU

Pin 1 - Grid No. 1 of
  Unit No. 1
Pin 2 - Cathode,
  Grid No. 3
  of Units
  No. 1 & No. 2
Pin 3 - Grid No. 1 of
  Unit No. 2
Pin 4 - Plate of
  Unit No. 2
Pin 5 - Grid No. 2
  of Units
  No. 1 & No. 2
Pin 6 - Heater
Pin 7 - Heater
Pin 8 - Plate of
  Unit No. 1

AMPLIFIER - Class A1
Values are for Each Unit

Maximum Ratings, Design-Center Values:
  PLATE VOLTAGE. ....... 50 max. volts
  GRID-No. 2 (SCREEN) VOLTAGE ....... 50 max. volts
  PLATE DISSIPATION. ....... 2 max. watts

^o Without external shield.
^a Each unit.

Indicates a change.

JAN. 3, 1955
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
TWIN BEAM POWER TUBE

GRID-No.2 INPUT ................................... 0.5 max. watt
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode .. 90 max. volts
  Heater positive with respect to cathode .. 90 max. volts

Typical Operation and Characteristics (Each unit):
Plate Voltage .................................. 26.5 Volts
Grid-No.2 Voltage ................................ 26.5 Volts
Grid-No.1 (Control-Grid) Voltage ..............-4.5 Volts
Peak AF Grid-No.1 Voltage ..................... 4.5 Volts
Zero-Signal Plate Current ....................... 20 ma
Max.-Signal Plate Current ...................... 20.5 ma
Zero-Signal Grid-No.2 Current .................. 1.9 ma
Max.-Signal Grid-No.2 Current .................. 5.5 ma
Transconductance .............................. 5700 μhos
Load Resistance ................................. 1500 Ωms
Total Harmonic Distortion ...................... 7 %
Max.-Signal Power Output ...................... 180 mw

Maximum Circuit Values:
Grid-No.1-Circuit Resistance:
  For maximum rated conditions:
    With cathode bias ................................ 0.5 max. megohm
    With fixed bias .................................. 0.1 max. megohm
  For conditions where the maximum design values of plate voltage and grid-No.2 voltage do not exceed 26.5 volts:
    With grid-resistor bias .......................... 0.5 max. megohm

AF POWER AMPLIFIER - Class AB1
Unless otherwise specified, values are on a Per-Tube Basis

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE .................................. 50 max. volts
GRID-No.2 (SCREEN) VOLTAGE ................... 50 max. volts
PLATE DISSIPATION (Per unit) .................. 2 max. watts
GRID-No.2 INPUT (Per unit) .................... 0.5 max. watt
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode .. 90 max. volts
  Heater positive with respect to cathode .. 90 max. volts

Typical Push-Pull Operation:
Plate Voltage ................................... 26.5 Volts
Grid-No.2 Voltage ................................ 26.5 Volts
Grid-No.1 (Control-Grid) Voltage ..............-7 Volts
Peak AF Grid-No.1-to-
  Grid No.1 Voltage .............................. 14 Volts
Zero-Signal Plate Current ...................... 19 ma

→ indicates a change.

JAN. 3, 1955
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
DATA 1
**26A7-GT**

**TWIN BEAM POWER TUBE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max.-Signal Plate Current</td>
<td>30 ma</td>
</tr>
<tr>
<td>Zero-Signal Grid-No. 2 Current</td>
<td>2 ma</td>
</tr>
<tr>
<td>Max.-Signal Grid-No. 2 Current</td>
<td>8.5 ma</td>
</tr>
<tr>
<td>Effective Load Resistance (Plate to plate)</td>
<td>2500 ohms</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>5 %</td>
</tr>
<tr>
<td>Max.-Signal Power Output</td>
<td>500 mw</td>
</tr>
</tbody>
</table>

**Maximum Circuit Values:**

Grid-No. 1-Circuit Resistance:

For maximum rated conditions:

- With cathode bias: 0.5 max. megohm
- With fixed bias: 0.1 max. megohm

For conditions where the maximum design values of plate voltage and grid-No. 2 voltage do not exceed 26.5 volts:

- With grid-resistor bias: 0.5 max. megohm
26A7-GT

AVERAGE PLATE CHARACTERISTICS
EACH UNIT - TRIODE CONNECTION

HEATER VOLTS = 26.5
GRID N°2 CONNECTED TO PLATE

PLATE MILLIAMPERES

MAR. 24, 1945
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6510
OPERATION CHARACTERISTICS
PUSH-PULL CIRCUIT

HEATER VOLTS = 26.5

TYPE 6J6

C1, C4 = 0.01 μF
C2 = 0.002 μF
C3 = 1.0 μF
R1 = 2.2 MEGOHMS
R2, R3 = 100 OHMS
R4 = 0.2 MEGOHM

TI = INTERSTAGE COUPLING TRANSFORMER:
TRANSFORMER:
TURNS RATIO (PRIMARY TO V2 SECONDARY) = 3:1

T2 = OUTPUT TRANSFORMER:
PLATE-TO-PLATE LOAD,
2000 OHMS

TOTAL HARMONIC DISTORTION - PER CENT

POWER OUTPUT - MILLIWATTS

MAR. 21, 1945
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
92CM-6579