



26A7-GT

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## TWIN BEAM POWER TUBE

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 26.5 . . . . . ac or dc volts

Current. . . . . 0.6 . . . . . amp

Direct Interelectrode Capacitances (Approx.):<sup>o</sup>Grid No.1 to plate<sup>▲</sup> . . . . . 1.2  $\mu\text{f}$ Grid No.1 to cathode & grid No.3,  
grid No.2, and heater<sup>▲</sup> . . . . . 16  $\mu\text{f}$ Plate to cathode & grid No.3,  
grid No.2, and heater<sup>▲</sup> . . . . . 13  $\mu\text{f}$ Grid No.1 of unit No.1 to  
grid No.1 of unit No.2 . . . . . 0.2  $\mu\text{f}$ Plate of unit No.1 to  
plate of unit No.2 . . . . . 0.2  $\mu\text{f}$ Grid No.1 of unit No.1 to  
plate of unit No.2 . . . . . 0.2  $\mu\text{f}$ Grid No.1 of unit No.2 to  
plate of unit No.1 . . . . . 0.2  $\mu\text{f}$ 

## Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length . . . . . 3-13/16"

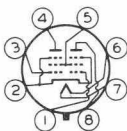
Maximum Seated Length. . . . . 3-1/4"

Maximum Diameter . . . . . 1-9/32"

Bulb . . . . . T-9

Base . . . . . Intermediate-Shell Octal 8-Pin (JETEC No.88-6),  
or Short Intermediate-Shell Octal 8-Pin (JETEC No.88-58)

Basing Designation for BOTTOM VIEW . . . . . 8BU

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

Pin 6 - Heater

Pin 7 - Heater

Pin 8 - Plate of  
Unit No.1AMPLIFIER - Class A<sub>1</sub>

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

<sup>o</sup> Without external shield.<sup>▲</sup> Each unit.

←Indicates a change.

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## 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  $\mu$ mhos

Load Resistance. . . . . 1500 ohms

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 AB<sub>1</sub>

*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

DATA 1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



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## TWIN BEAM POWER TUBE

|                                                         |      |      |
|---------------------------------------------------------|------|------|
| Max.-Signal Plate Current. . . . .                      | 30   | ma   |
| Zero-Signal Grid-No.2 Current (Approx.). .              | 2    | ma   |
| Max.-Signal Grid-No.2 Current (Approx.). .              | 8.5  | ma   |
| Effective Load Resistance<br>(Plate to plate) . . . . . | 2500 | ohms |
| Total Harmonic Distortion. . . . .                      | 5    | %    |
| Max.-Signal Power Output . . . . .                      | 500  | 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

←Indicates a change.

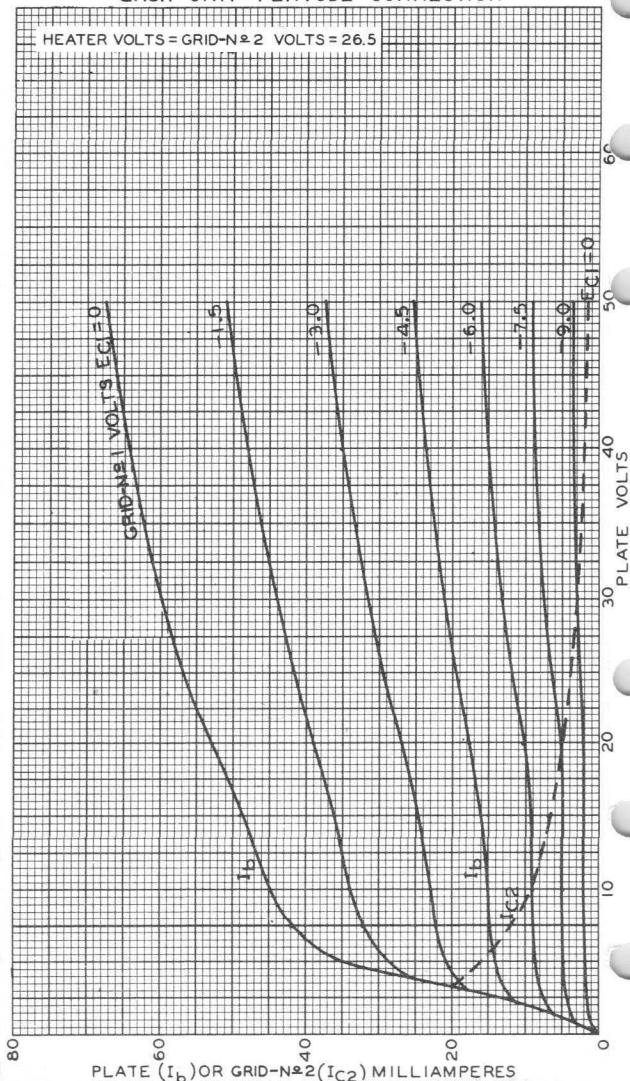
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# AVERAGE PLATE CHARACTERISTICS EACH UNIT - PENTODE CONNECTION

HEATER VOLTS = GRID-N<sub>2</sub> VOLTS = 26.5



JAN. 3, 1955

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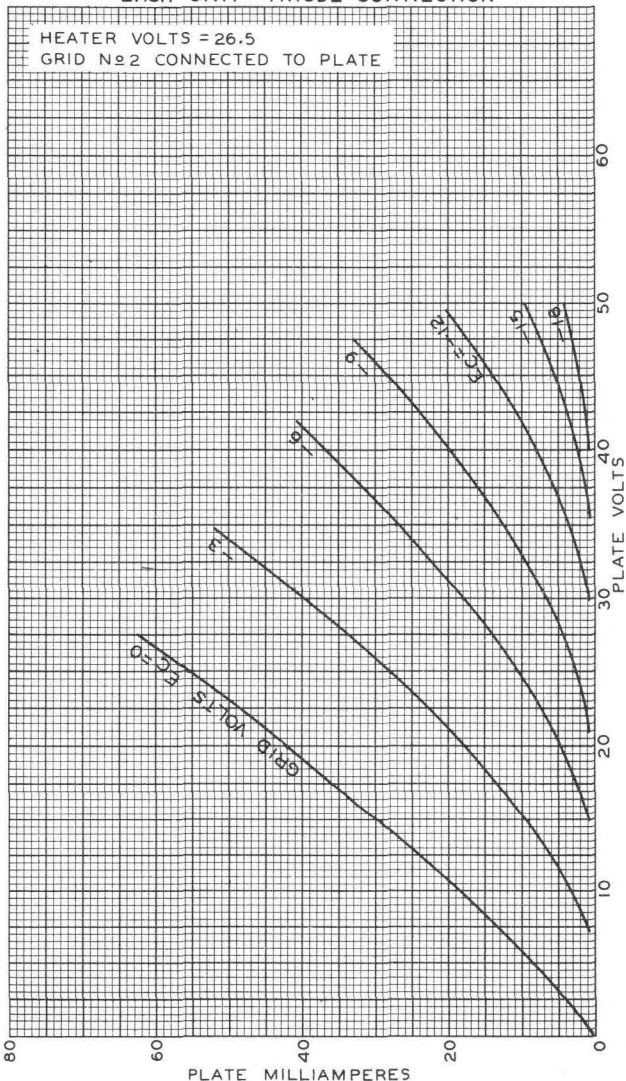
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# AVERAGE PLATE CHARACTERISTICS EACH UNIT - TRIODE CONNECTION



MAR. 24, 1945

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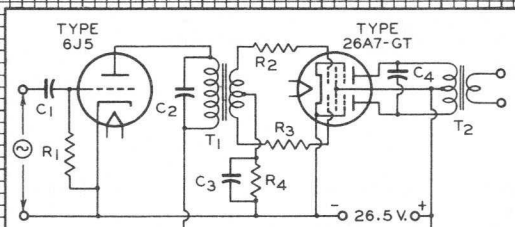
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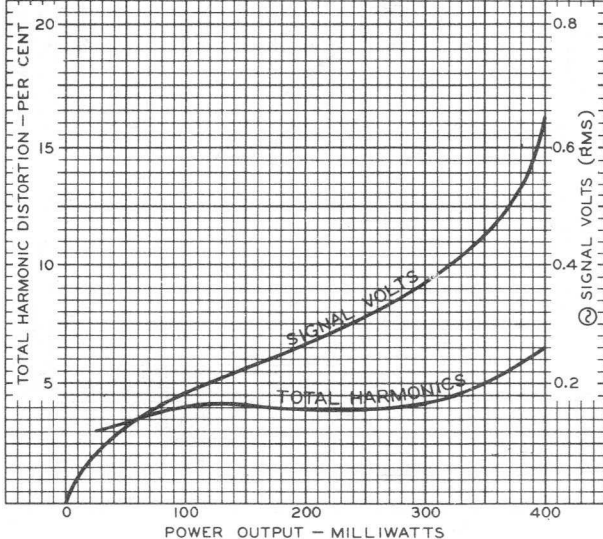
# OPERATION CHARACTERISTICS PUSH-PULL CIRCUIT

HEATER VOLTS = 26.5

 $C_1, C_4 = 0.01 \mu f$  $C_2 = 0.002 \mu f$  $C_3 = 1.0 \mu f$  $R_1 = 2.2 \text{ MEGOHMS}$  $R_2, R_3 = 100 \text{ OHMS}$  $R_4 = 0.2 \text{ MEGOHM}$ 

$T_1$  = INTERSTAGE COUPLING  
TRANSFORMER:  
TURNS RATIO (PRIMARY  
TO  $1/2$  SECONDARY) = 3:1

$T_2$  = OUTPUT TRANSFORMER:  
PLATE-TO-PLATE LOAD,  
2000 OHMS



MAR. 21, 1945

TUBE DIVISION

92CM-6579

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