



26A7-GT

26A7-GT

TWIN BEAM POWER TUBE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	26.5	ac or dc volts
Current	0.6	amp

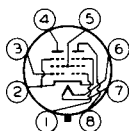
Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to plate [▲]	1.2	μμf
Grid No.1 to cathode & grid No.3, grid No.2, and heater [▲]	16	μμf
Plate to cathode & grid No.3, grid No.2, and heater [▲]	13	μμf
Grid No.1 of unit No.1 to grid No.1 of unit No.2	0.2	μμf
Plate of unit No.1 to plate of unit No.2	0.2	μμf
Grid No.1 of unit No.1 to plate of unit No.2	0.2	μμf
Grid No.1 of unit No.2 to plate of unit No.1	0.2	μμf

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.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.

[▲] Each unit.

←Indicates a change.

26A7-GT



26A7-GT

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	μmhos
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 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.



26A7-GT

26A7-GT

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 (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
-----------------------------------	----------	--------

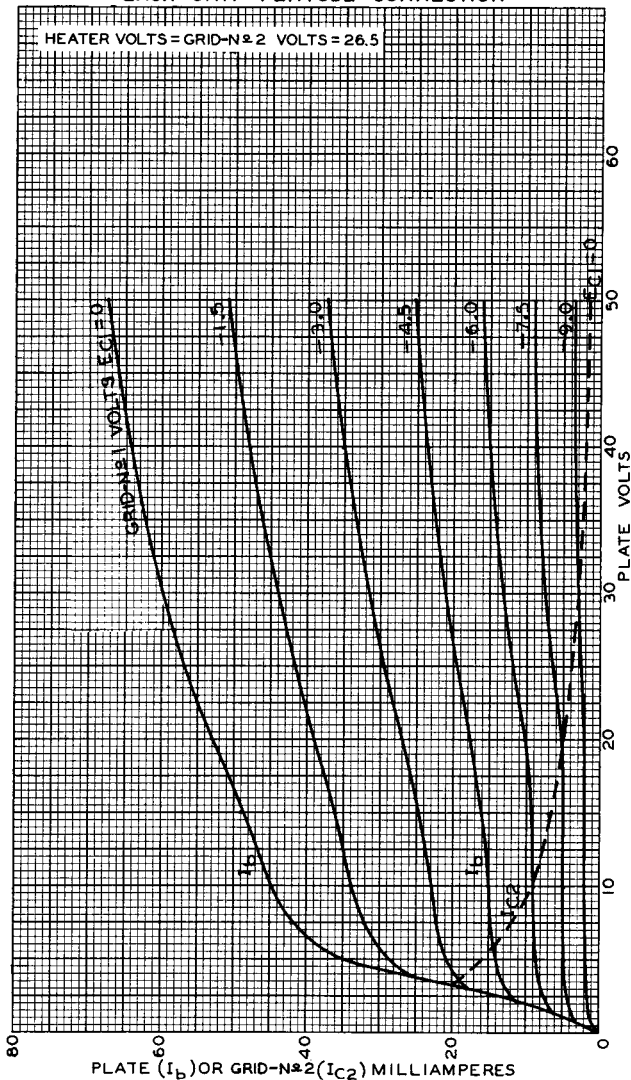
← Indicates a change.

26A7-GT



26A7-GT

AVERAGE PLATE CHARACTERISTICS
EACH UNIT - PENTODE CONNECTION



JAN. 3, 1955

TUBE DIVISION

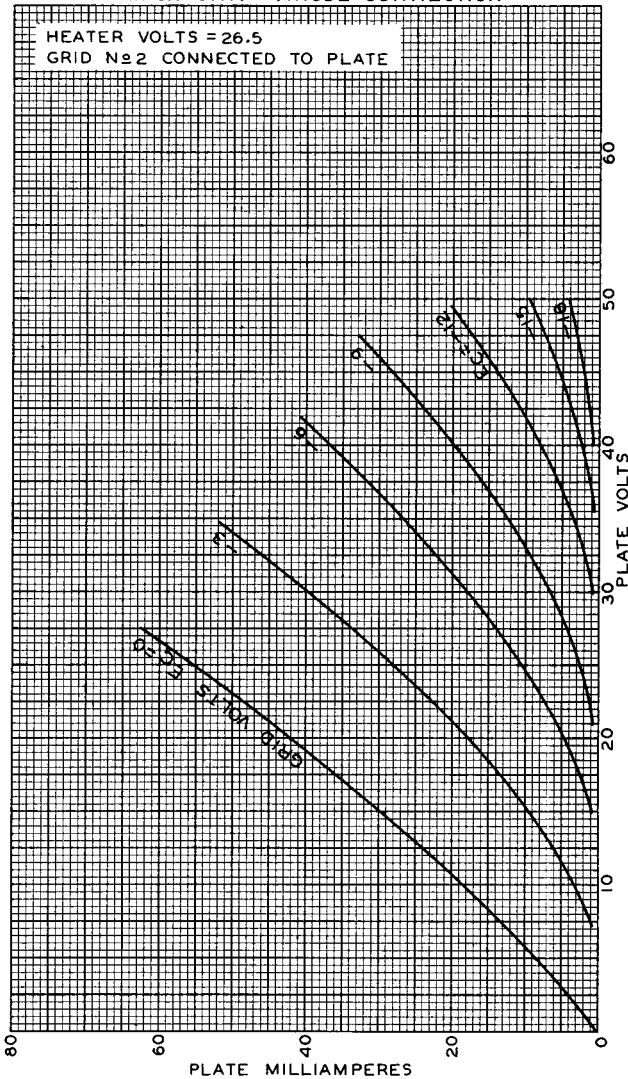
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6509RI



26A7-GT

26A7-GT AVERAGE PLATE CHARACTERISTICS EACH UNIT - TRIODE CONNECTION



MAR. 24, 1945

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6510

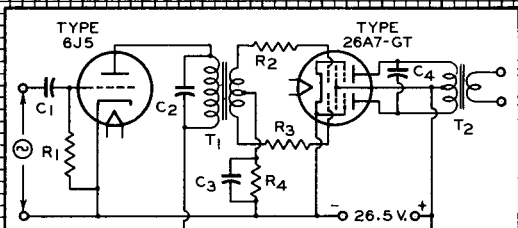


26A7-GT

OPERATION CHARACTERISTICS

PUSH-PULL CIRCUIT

HEATER VOLTS = 26.5



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

T_1 = INTERSTAGE COUPLING
 TRANSFORMER:
 TURNS RATIO (PRIMARY
 TO $\frac{1}{2}$ SECONDARY) = 3:1
 T_2 = OUTPUT TRANSFORMER:
 PLATE-TO-PLATE LOAD,
 2000 OHMS

