



26A7-GT

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TWIN A-F BEAM POWER AMPLIFIERGENERAL DATA**Electrical:**

Heater for Coated Unipotential Cathode:

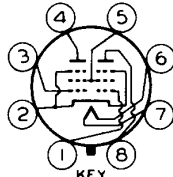
Voltage	26.5	a-c or d-c volts
Current	0.6	amp.

Direct Interelectrode Capacitances—Each Unit (Approx.):^o

Grid to Plate	1.2	μf
Input	16	μf
Output	13	μf

Physical:

Mounting Position	Any
Maximum Overall Length	3-13/16"
Maximum Seated Length	3-1/4"
Maximum Diameter	1-5/16"
Bulb	T-9
Base	Intermediate Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	8BU

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

Pin 6—Heater

Pin 7—Heater

Pin 8—Plate of
Unit No.1CLASS A₁ AMPLIFIER — Each Unit**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE	50 max.	volts
SCREEN VOLTAGE	50 max.	volts
PLATE DISSIPATION	2 max.	watts
SCREEN DISSIPATION	0.5 max.	watt
D-C HEATER-CATHODE POTENTIAL	90 max.	volts

Typical Operation:

Plate Voltage	26.5	volts
Screen Voltage	26.5	volts
Grid Voltage*	-4.5	volts
Peak A-F Grid Voltage	4.5	volts
Zero-Signal Plate Current	20	ma.
Max.-Signal Plate Current	20.5	ma.
Zero-Signal Screen Current	2	ma.
Max.-Signal Screen Current	5.5	ma.
Plate Resistance	2500 approx.	ohms
Transconductance	5500	μmhos
Load Resistance	1500	ohms
Total Harmonic Distortion	7	%
Max.-Signal Power Output	200	mw

*^o: See next page.

MAR. 30, 1945

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TENTATIVE DATA

26A7-GT



26A7-GT

TWIN A-F BEAM POWER AMPLIFIER

(continued from preceding page)

PUSH-PULL CLASS AB₁ AMPLIFIER - Both Units

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	50 max.	volts
SCREEN VOLTAGE	50 max.	volts
PLATE DISSIPATION (per unit)	2 max.	watts
SCREEN DISSIPATION (per unit)	0.5 max.	watt
D-C HEATER-CATHODE POTENTIAL	90 max.	volts

Typical Operation — Both Units:

Plate Voltage	26.5	volts
Screen Voltage	26.5	volts
Grid Voltage*	-7	volts
Peak A-F Grid-to-Grid Voltage	14	volts
Zero-Signal Plate Current	19	ma.
Max.-Signal Plate Current	30	ma.
Zero-Signal Screen Current	2	approx. ma.
Max.-Signal Screen Current	8.5	approx. ma.
Effective Load Resistance (plate-to-plate)	2500	ohms
Total Harmonic Distortion	5	%
Max.-Signal Power Output	500	mw

⁰ With no external shield.

* Under maximum rated conditions, the d-c resistance in each grid circuit may be as high as 0.5 megohm with cathode bias and 0.1 megohm with fixed bias. When the plate voltage and the screen voltage do not exceed a maximum design value of 26.5 volts, the d-c resistance in the grid circuit may be as high as 0.5 megohm with grid-resistor bias.

MAR. 30, 1945

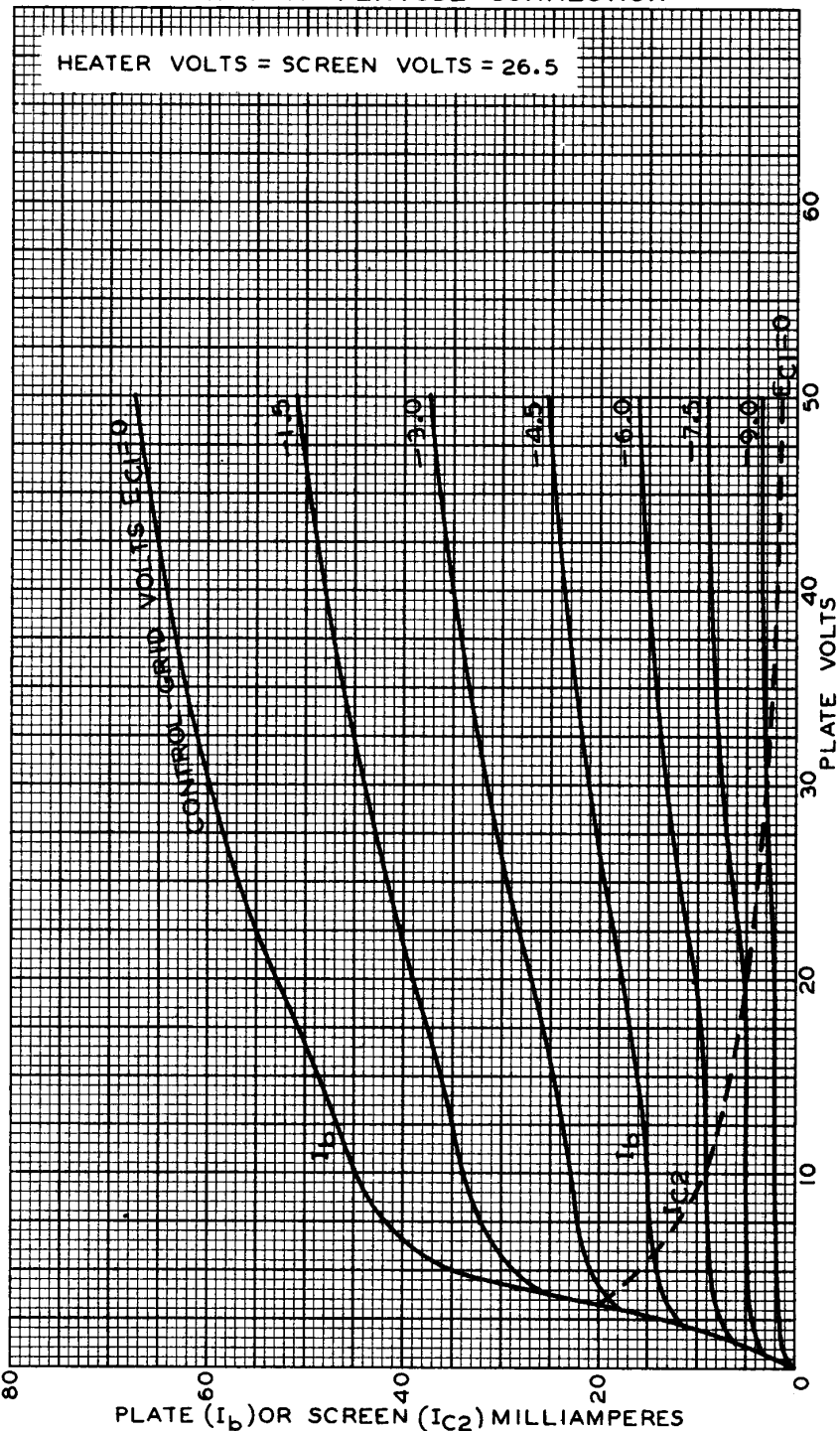
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TENTATIVE DATA



26A7-GT

AVERAGE PLATE CHARACTERISTICS
EACH UNIT - PENTODE CONNECTION



MAR. 23, 1945

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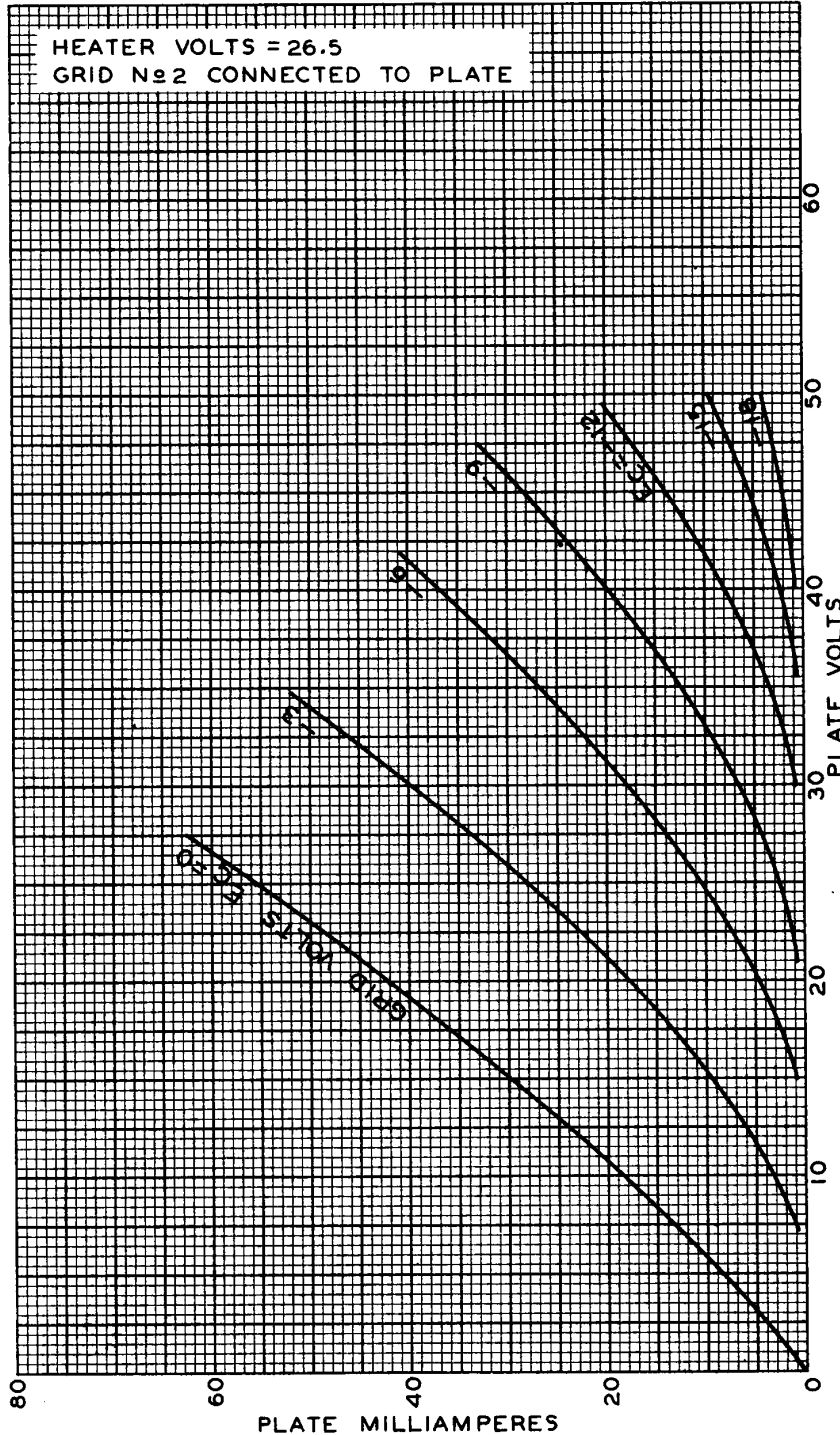
92CM-6509

26A7-GT



26A7-GT

AVERAGE PLATE CHARACTERISTICS
EACH UNIT - TRIODE CONNECTION



MAR. 24, 1945

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92CM-6510

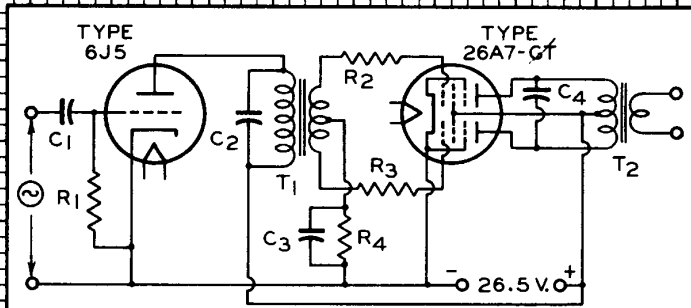


26A7-GT

OPERATION CHARACTERISTICS PUSH-PULL CIRCUIT

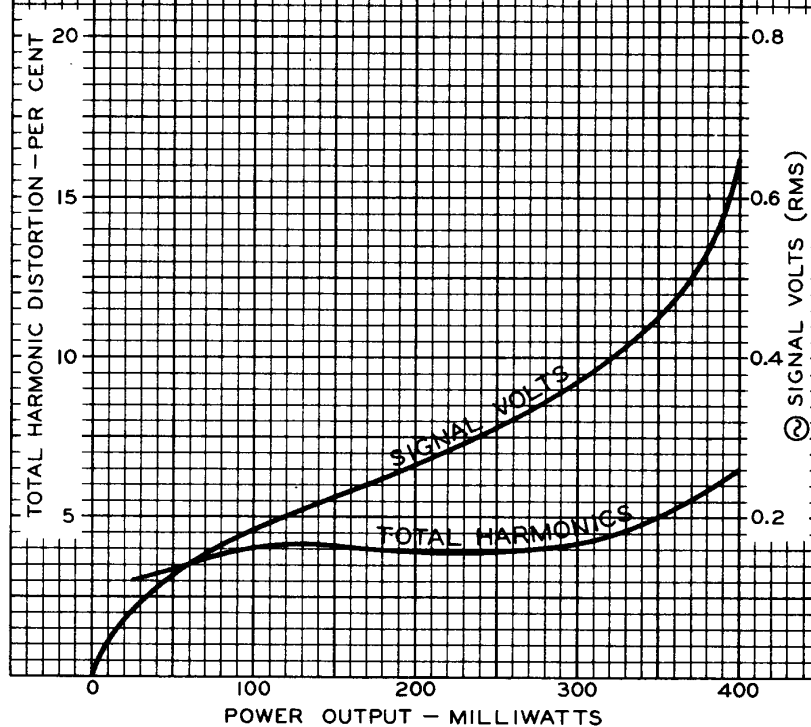
26A7-GT

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 $\frac{1}{2}$ SECONDARY) = 3:1
 T_2 = OUTPUT TRANSFORMER:
PLATE-TO-PLATE LOAD,
2000 OHMS



MAR. 21, 1945

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92CM-6579