

Twin Power Pentode

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $6.3 \pm 10\%$ volts

Current at 6.3 volts. 1.52 amp

Direct Interelectrode Capacitances

(Approx.):^a

	Unit No. 1	Unit No. 2	
Grid No. 1 to plate.	0.7	0.5	μmf
Grid No. 1 to cathode & grid No. 3, grid No. 2, and heater	11	11	μmf
Plate to cathode & grid No. 3, grid No. 2, and heater	5	5	μmf
Grid No. 1 of unit No. 1 to grid No. 1 of unit No. 2.	0.03		μmf
Plate of unit No. 1 to plate of unit No. 2.	1.5		μmf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Voltage	250	volts
Grid-No. 2 Voltage	250	volts
Grid-No. 1 Voltage	-7.3	volts
Plate Resistance (Approx.)	38000	ohms
Transconductance.	11300	μmhos
Plate Current	48	ma
Grid-No. 2 Current	5.5	ma

Mechanical:

Operating Position. Any

Maximum Overall Length. 3-7/8"

Maximum Seated Length 3-5/16"

Diameter. 1.438" to 1.562"

Bulb. T12

Base. Short Medium-Shell Octal 8-Pin
with External Barriers, Style A
(JEDEC Group 1, No. B8-110)

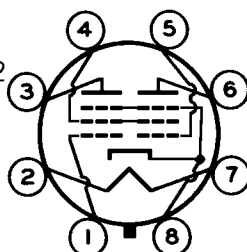
Basing Designation for BOTTOM VIEW. 8JP

Pin 1-Grid No. 1
of Unit No. 2

Pin 2-Heater

Pin 3-Plate of
Unit No. 2

Pin 4-Grid No. 2



Pin 5-Grid No. 1
of Unit No. 1

Pin 6-Plate of
Unit No. 1

Pin 7-Heater

Pin 8-Cathode,
Grid No. 3



6DZ7

PUSH-PULL AF POWER AMPLIFIER — Class AB₁

Maximum Ratings, Design-Maximum Values:

Values are on a Per-Tube Basis

PLATE VOLTAGE	440	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	300	max.	volts
GRID-No.2 INPUT (TOTAL)	4	max.	watts
PLATE DISSIPATION	13.2	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 ^b	max.	volts

Typical Operation:

Values are on a Per-Tube Basis

	<i>Fixed Bias</i>	<i>Cathode Bias</i>	
Plate Voltage	400	300	volts
Grid-No.2 Voltage	250	250	volts
Grid-No.1 Voltage	-11	-	volts
Cathode Resistor.	-	120	ohms
Peak AF Grid-No.1-to-Grid-No.1 Voltage	22	22	volts
Zero-Signal Plate Current	40	66	ma
Max.-Signal Plate Current	100	80	ma
Zero-Signal Grid-No.2 Current	4	7	ma
Max.-Signal Grid-No.2 Current	13	15	ma
Effective Load Resistance (Plate to plate).	9000	9000	ohms
Total Harmonic Distortion	2.5	3.5	%
Max.-Signal Power Output.	18	12	watts

Maximum Circuit Values:

Value is for Each Unit

Grid-No.1-Circuit Resistance.	0.27 max.	megohm
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^a Without external shield.

^b The dc component must not exceed 100 volts.

