



IE7-GT

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TWIN POWER PENTODE

GENERAL DATA

Electrical:

Filament, Coated:

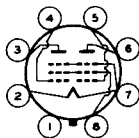
Voltage . . . . . 2.0 . . . . . dc volts
Current . . . . . 0.24 . . . . . amp

Mechanical:

Mounting Position . . . . . Vertical, or Horizontal with pins 2 and 7 in vertical plane
Maximum Overall Length . . . . . 3-5/16"
Maximum Seated Length . . . . . 2-3/4"
Maximum Diameter . . . . . 1-9/32"
Bulb . . . . . T-9
Base . . . . . Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW . . . . . 8C

For convenience, one Pentode unit is identified as P1; the other as P2.

- Pin 1 - No Connection
Pin 2 - Filament (+)
Pin 3 - Plate of Pentode No.2
Pin 4 - Grid No.1 of Pentode No.2
Pin 5 - Grid No.1 of Pentode No.1



- Pin 6 - Plate of Pentode No.1
Pin 7 - Filament (-), Grid No.3 of Pentodes No.1 & No.2
Pin 8 - Grid No.2 of Pentodes No.1 & No.2

AF POWER AMPLIFIER - Class A1

Values are for one unit with grid No.1 of other unit biased by -25 volts.

Maximum Ratings, Design-Center Values:

Table with 3 columns: Parameter, Value, Unit. Includes Plate Voltage (135 max. volts), Grid-No.2 (SCREEN) Voltage (135 max. volts), Plate Dissipation (1.5 max. watts), and Grid-No.2 Input (0.5 max. watt).

Typical Operation and Characteristics:

Table with 4 columns: Parameter, Value 1, Value 2, Unit. Includes Plate Voltage (90, 135 volts), Grid-No.2 Voltage (90, 135 volts), Grid-No.1 (Control-Grid) Voltage (-3.0, -4.5 volts), Peak AF Grid-No.1 Voltage (3.0, 4.5 volts), Zero-Signal Plate Current (3.8, 7.5 ma), Zero-Signal Grid-No.2 Current (1.1, 2.2 ma), Plate Resistance (Approx.) (0.34, 0.26 megohm), Transconductance (1150, 1425 umhos), Load Resistance (20000, 16000 ohms), Total Harmonic Distortion (Approx.) (5.5, 4.5 %), and Max.-Sig. Power Output (0.110, 0.290 watt).

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PUSH-PULL AF POWER AMPLIFIER - Class A<sub>1</sub>**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. . . . .	135 max.	volts
GRID-No.2 (SCREEN) VOLTAGE . . . . .	135 max.	volts
PLATE DISSIPATION (PER UNIT) . . . . .	1.5 max.	watts
GRID-No.2 INPUT (PER UNIT) . . . . .	0.5 max.	watt

**Typical Operation and Characteristics:***Values are for both units*

Plate Voltage. . . . .	135	volts
Grid-No.2 Voltage. . . . .	135	volts
Grid-No.1 (Control-Grid) Voltage . . . . .	-7.5	volts
Peak AF Grid-No.1 to Grid-No.1 Voltage . . . . .	15	volts
Zero-Signal Plate Current. . . . .	7	ma
Max.-Signal Plate Current. . . . .	10.5	ma
Zero-Signal Grid-No.2 Current. . . . .	2	ma
Max.-Signal Grid-No.2 Current. . . . .	3.5	ma
Effective Load Resistance (plate to plate)	24000	ohms
Total Harmonic Distortion (Approx.) . . . . .	5.5	%
Max.-Signal Power Output . . . . .	0.575	watt

**Maximum Circuit Values (for maximum rated conditions):**

## Grid-No.1-Circuit Resistance:

For fixed bias . . . . .	0.5	megohm
For cathode bias . . . . .	1	megohm