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 $P_1$; the other as $P_2$.

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

**Maximum Ratings, Design-Center Values:**
- PLATE VOLTAGE: 135 max. volts
- GRID-No.2 (SCREEN) VOLTAGE: 135 max. volts
- PLATE DISSIPATION: 1.5 max. watts
- GRID-No.2 INPUT: 0.5 max. watt

**Typical Operation and Characteristics:**
- 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: 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 $\mu$hos
- Load Resistance: 20000 16000 ohms
- Total Harmonic Distortion (Approx.): 5.5 4.5 %
- Max.-Sig. Power Output: 0.110 0.290 watt
TWIN POWER PENTODE

PUSH-PULL AF POWER AMPLIFIER - Class A1

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:

- 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

NOV. 15, 1949