**IAC 5**

**POWER PENTODE**

**SUBMINIATURE TYPE**

### GENERAL DATA

**Electrical:**
- Filament, Coated:
  - Voltage: 1.25 dc volts
  - Current: 0.04 amp

**Mechanical:**
- Mounting Position: Any
- Maximum Overall Length: 1-3/4"
- Maximum Seated Length: 1-1/2"
- Length, Base Seat to Bulb Top (excluding tip): 1.200" ± 0.060"
- Maximum Diameter: 0.4" T-3 Bulb
- Base: Small-Button Sub-minar 8-Pin

**Bottom View**

- Pin 1 - No Connection
- Pin 2 - Grid No.1
- Pin 3 - No Connection
- Pin 4 - Filament (-), Grid No.3
- Pin 5 - Filament (+)
- Pin 6 - No Connection
- Pin 7 - Plate
- Pin 8 - Grid No.2

### Maximum Ratings, Design-Center Values:

- **PLATE VOLTAGE**
  - 67.5 max. volts
- **GRID-No. 2 (SCREEN) VOLTAGE**
  - 67.5 max. volts
- **TOTAL CATHODE CURRENT**
  - 4.0 max. ma

### Typical Operation and Characteristics:

- Plate Voltage
  - 30 45 67.5 volts
- Grid-No.2 Voltage
  - 30 45 67.5 volts
- Grid-No.1 (Control-Grid) Voltage
  - -2 -3 -4.5 volts
- Peak AF Grid-No.1 Voltage
  - 2 3 4.5 volts
- Zero-Signal Plate Current
  - 0.5 1.0 2.0 ma
- Zero-Signal Grid-No.2 Current
  - 0.1 0.2 0.4 ma
- Plate Resistance
  - 0.2 0.17 0.15 megohm
- Transconductance
  - 450 600 750 μmhos
- Load Resistance
  - 50000 40000 25000 ohms
- Total Harmonic Distortion
  - 10 10 10 %
- Max.-Signal Power Output
  - 5 15 50 mw

**SEPT. 15, 1949**

**TUBE DEPARTMENT**

**TENTATIVE DATA**

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
AVERAGE PLATE CHARACTERISTICS

$E_f = 1.25$ VOLTS DC
GRID-N°2 VOLTS = 30

PLATE (I_b) OR GRID-N°2 (I_c2) MILLIAMPERES

APRIL 12, 1949
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
AVERAGE PLATE CHARACTERISTICS

$E_f = 1.25$ VOLTS DC
GRID-NOS 2 VOLTS = 45
AVERAGE PLATE CHARACTERISTICS

$E_f = 1.25$ VOLTS DC
GRID-N° 2 VOLTS = 67.5

PLATE (I_P) OR GRID-N° 2 (I_C2) MILLIAMPERES

APRIL 13, 1949
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