# RCA 32ET5 POWER PENTODE

## GENERAL DATA

### Electrical:
- **Heater, for Unipotential Cathode:**
  - Voltage (AC or DC): 32 ± 10% volts
  - Current: 0.1 amp
- **Direct Interelectrode Capacitances (Approx.):**
  - Grid No.1 to plate: 0.6 μf
  - Grid No.1 to cathode & grid No.3, grid No.2, and heater: 12 μf
  - Plate to cathode & grid No.3, grid No.2, and heater: 6 μf

### Mechanical:
- **Operating Position:** Any
- **Maximum Overall Length:** 2-5/8" (65 mm)
- **Maximum Seated Length:** 2-3/8" (58.7 mm)
- **Length, Base Seat to Bulb Top (Excluding tip):** 2" ± 3/32" (51 mm ± 0.1 mm)
- **Diameter:** 0.650" to 0.750" (16.5 mm to 19.1 mm)
- **Dimensional Outline:** See General Section
- **Bulb:** T5-1/2
- **Base:** Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW: 7CV

### AMPLIFIER — Class A

#### Maximum Ratings, Design—Maximum Values:
- **Plate Voltage:** 150 max. volts
- **Grid-No.2 (SCREEN-GRID) Voltage:** 130 max. volts
- **Grid-No.2 Input:** 1.2 max. watts
- **Plate Dissipation:** 5.4 max. watts
- **Peak Heater-Cathode Voltage:**
  - Heater negative with respect to cathode: 200 max. volts
  - Heater positive with respect to cathode: 200 max. volts

#### Typical Operation and Characteristics:
- **Plate Voltage:** 110 volts
- **Grid-No.2 Voltage:** 110 volts
- **Grid-No.1 Voltage:** -7.5 volts
- **Peak AF Grid-No.1 Voltage:** 7.5 volts
- **Zero-Signal Plate Current:** 30 ma
- **Zero-Signal Grid-No.2 Current:** 2.8 ma
- **Plate Resistance (Approx.)**
  - Parallel: 21,500 ohms
  - Transconductance: 5,500 μmhos
  - Load Resistance: 2,800 ohms
Total Harmonic Distortion ........... 10 %
Max.-Signal Power Output .......... 1.2 watts

Maximum Circuit Values:
Grid-No.1-Circuit Resistance:
  For fixed-bias operation ........ 0.1 max. megohm
  For cathode-bias operation ...... 0.5 max. megohm

0 Without external shield.
△ The dc component must not exceed 100 volts.