# 6AE7-GT

## TWIN-INPUT TRIODE AMPLIFIER

**Heater**
- Coated Unipotential Cathode
- Voltage: 6.3 a-c or d-c volts
- Current: 0.5 amn.

**Direct Inter-electrode Capacitances:**
- Grid to Plate (per section): 2.5 μf
- Grid to Grid: 0.3 μf
- Input (per section): 3.0 μf
- Output: 1.8 μf

**Maximum Overall Length**: 3-5/16"
**Maximum Seated Height**: 2-3/4"
**Maximum Diameter**: 1-5/16"

**Bulb**: T-9

**Base**
- Intermediate Shell Octal 8-Pin
- Pin 1 - No Connection
- Pin 2 - Heater
- Pin 3 - Plate
- Pin 4 - Grid #2
- Pin 5 - Cathode #2
- Pin 6 - Grid #1
- Pin 7 - Heater
- Pin 3 - Cathode #1

**Mounting Position**: Any

**Bottom View (G-7AX)**

**AMPLIFIER**

Both grids connected together at socket; likewise both cathodes

**Plate Voltage**: 300 max. volts
**Plate Dissipation**: 5 max. watts

**Characteristics:**
- Plate: 250 volts
- Grid: -13.5 volts
- Amplification Factor: 14
- Plate Resistance: 4650 ohms
- Transconductance: 3000 μmhos
- Plate Current: 10 ma.

**DYNAMIC-COUPLED PUSH-PULL AMPLIFIER**

As driver for two type 6AC5-GT tubes

**Plate Voltage**: 300 max. volts
**Plate Dissipation**: 5 max. watts

**Typical Operation:**
- Plate Supply Voltage: 250 volts
- Grid Voltage: ▲ volts
- Grid-to-Grid Input Signal to 6AE7-GT (RMS): 44 volts
- Zero-Sig. Plate Cur. (6AE7-GT): 10 ma.
- Max.-Sig. Plate Cur. (6AE7-GT): 19 ma.
- Zero-Sig. Plate Cur. (6AC5-GT/6AC5-G's): 54 ma.
- Max.-Sig. Plate Cur. (6AC5-GT/6AC5-G's): 75 ma.
- Effective Load Resistance: 10000 ohms
- Harmonic Distortion (6AC5-GT/6AC5-G's): 10 %
- Max.-Sig. Power Output (6AC5-GT/6AC5-G's): 9.5 watts

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- ▲ Bias voltage for both the driver and the push-pull stage is developed by the dynamic-coupled connection.
- ▲ Current does not flow in the driver grid circuit during any part of the input cycle.

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RCA RADIOVON DIVISION

TENTATIVE DATA