RCA-19J6 is a miniature type of medium-mu twin triode intended especially for converter service in ac/dc FM and AM receivers. In such service, one triode unit may be used as a mixer, and the other as an oscillator. The 19J6 may also be used for oscillator, amplifier, or mixer service in television receivers of "transformerless" type.

**GENERAL DATA**

**Electrical:**
- Heater, for Unipotential Cathode:
  - Voltage (AC or DC) 
  - Current: 0.15 amperes
- Direct Inter-electrode Capacitances (Each unit approx. 10):
  - Grid to Plate: 1.5 μF
  - Grid to Cathode: 2.0 μF
  - Plate to Cathode: 0.4 μF

**Mechanical:**
- Mounting Position: Any
- Maximum Overall Length: 2-1/8" ± 3/32"
- Maximum Seated Height: 1-7/8" ± 3/32"
- Length from Base Seat to Bulb Top (excluding tip): 1-1/2" ± 3/32"
- Bulb: T-5-1/2
- Base: Small-Button Miniature 7-Pin

**CLASS A\text{\textsubscript{1}} AMPLIFIER (Cont'd)**

**Characteristics:**
- Plate Voltage: 100 volts
- Cathode-Bias Resistor*: 50* ohms
- Amplification Factor: 38
- Plate Resistance: 7100 ohms
- Transconductance: 5300 micromhos
- Plate Current: 8.5 ma

**MIXER SERVICE**

Values are for each unit

**Maximum Ratings, Design-Center Values:**
- PLATE VOLTAGE: 300 max. volts
- PLATE DISSIPATION: 1.5 max. watts
- PEAK HEATER-CATHODE VOLTAGE:
  - Heater negative with respect to cathode: 90 max. volts
  - Heater positive with respect to cathode: 90 max. volts

**Typical Operation:**
- Plate Voltage: 150 volts
- Cathode-Bias Resistor*: 810 ohms
- Oscillator Peak Voltage: 9 volts
- Plate Resistance: 10200 ohms
- Conversion Transconductance: 1900 micromhos
- Short-Circuit Input Conductance: 48 micromhos at 100 Mc.
- Plate Current: 96 ma

---

With no external shield.

* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.5 megohm with cathode bias. Operation with fixed bias is not recommended.

** SOCKET CONNECTIONS **

Bottom View

**DIMENSIONAL OUTLINE**

*Measured from base seat to bulb-top line as determined by ring gauge of 7/16" I.D.

---

Copyright, 1948
Radio Corporation of America

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

Photolithographed in U.S.A.