

## TENTATIVE CHARACTERISTICS

6113

## LOW MICROPHONIC TWIN TRIODE AMPLIFIER

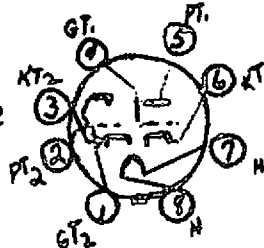
MECHANICAL DATACoated Unipotential cathode  
Outline drawing

Bulb

T-9

|                              |      |                                |
|------------------------------|------|--------------------------------|
| Base                         | B8-6 | Intermediate Shell octal 8-pin |
| Maximum diameter.....        |      | 1-5/16"                        |
| Maximum overall length ..... |      | 3-5/16"                        |
| Maximum seated height.....   |      | 2-3/4"                         |
| Pin connections.....         |      | 8BD                            |

Pin 1 - Grid T-2  
Pin 2 - Plate T-2  
Pin 3 - Cathode T-2  
Pin 4 - Grid T-1



Pin 5 - Plate T-1  
Pin 6 - Cathode T-1  
Pin 7 - Heater  
Pin 8 - Heater

Mounting Position

any

ELECTRICAL DATARatingsPer Triode

|                                    |                |
|------------------------------------|----------------|
| Heater voltage (A.C. or D.C.)..... | 6.3 volts      |
| Heater current.....                | 0.3 amperes    |
| Maximum plate voltage .....        | 250 volts      |
| Minimum grid voltage.....          | 0 volts        |
| Maximum plate dissipation.....     | 1 watt         |
| Maximum microphonism ** .....      | 50 milliwatts* |

\* Where power amplifier gain has been adjusted for 50 milliwatts output at an input sensitivity of 70 millivolts.

\*\* Rp = 0.2 Megohm and triodes are connected in parallel.

Typical Operating Conditions and Characteristics.

## Class A1 Amplifier Per Unit

|                           |                 |
|---------------------------|-----------------|
| Plate voltage.....        | 250 volts       |
| Grid voltage.....         | -2 volts        |
| Plate current .....       | 2.3 MA.         |
| Transconductance .....    | 1600 $\mu$ mhos |
| Plate resistance.....     | 44000 ohms      |
| Amplification factor..... | 70              |

# Direct Interelectrode Capacitances.

|                          |                  |
|--------------------------|------------------|
| Cap. Grid to Plate ..... | 2.8 $\mu$ ufds   |
| Cap. In.....             | 3.0 $\mu$ ufds   |
| Cap. Out.....            | 3.8 $\mu$ ufds   |
| Plate to Plate.....      | 0.4 $\mu$ ufds   |
| Grid to Grid.....        | 0.65 $\mu$ ufds  |
| Grid T2 to Plate T1..... | 0.13 $\mu$ ufds. |