MECHANICAL DATA

Bulb: T-6½
Base: E9-1, Small Button, 9 Pin
Basing: 9CZ
Cathode: Coated Unipotential

Mounting Position
Preferred: Upright or with Plate Majors in Vertical Position
Permissible: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS
Heater Voltage, ±5% (Series/Parallel) 12.6/6.3 Volts
Heater Current (Series/Parallel) 300/600 mA
Heater Power (Series/Parallel) 3.8/3.8 Watts
Heater Cathode Voltage
Heater Negative with Respect to Cathode:
Total DC and Peak 200 Volts Max.
Heater Positive with Respect to Cathode:
DC 100 Volts Max.
Total DC and Peak 200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Each Section)
Grid to Plate 3.2 µf
Input 3.6 µf
Output 0.6 µf
Grid to Grid 0.042 µf Max.
Plate to Plate 1.0 µf Max.
Heater to Cathode 4.6 µf

RATINGS (Design Center Values — Except as Noted)
Plate Voltage 300 Volts Max.
Peak Positive Plate Voltage (Abs. Max.) 1000 Volts Max.
Negative Grid Voltage 75 Volts Max.
Positive Grid Voltage 35 Volts Max.
Peak Negative Grid Voltage 400 Volts Max.
Peak Positive Grid Voltage 13 Volts Max.
Average Positive Grid Current 5 Ma Max.
Peak Positive Grid Current 100 Ma Max.
Average Cathode Current 25 Ma Max.
Peak Cathode Current 300 Ma Max.
Plate Dissipation
Each Plate 3.5 Watts Max.
Both Plates 7.0 Watts Max.
Bulb Temperature 120°C Max.
Grid Circuit Resistance
Fixed Bias 0.1 Megohm Max.
Cathode Bias 0.5 Megohm Max.
CHARACTERISTICS (Each Section)

Conditions:
- Plate Voltage: 150 Volts
- Grid Voltage: -5.0 Volts
- Plate Current: 11 ma
- Transconductance: 4600 $\mu$hos
- Amplification Factor: 18
- Plate Resistance: 3900 Ohms
- Grid Voltage for $I_b=100$ $\mu$A: -11 Volts
- Grid Voltage for $I_b=1.0$ mA: -12 Volts

Inter electrode Resistance, Each Section:
- Plate to All (Min.): 50 Megohms
- Grid to All (Min.): 50 Megohms

Time Dependent Characteristics
- Minimum Number of Heater Cycles: 2000
- Regulation of Heater Supply (Max.): 4%
- Heater Voltage (AC): 7.0 Volts
- Heater Cathode Voltage (AC): 140 Volts

NOTES:
1. Heater positive is not recommended for reliable operation.
2. At 8% duty cycle, 1 megacycle repetition rate.
3. Section not under test shall be grounded.
4. With plate voltage of 150 volts.
5. With plate voltage of 200 volts.
6. With applied d.c. voltage of 300 volts and heater voltage of 6.3 volts. Cathode Positive so that no cathode emission occurs.
AVERAGE PLATE CHARACTERISTICS
EACH SECTION

$E_f = 6.3$ VOLTS

CURRENTS IN MILLIAMPERES

PLATE VOLTAGE
AVERAGE CHARACTERISTICS

CURRENT IN MILLIAMPERES

PLATE VOLTAGE

E_f = 6.3 VOLTS