MECHANICAL DATA

Bulb ........................................ T-5½
Base ......................................... E7-1, Miniature Button 7-Pin
Outline ...................................... 5-2
Basing ....................................... 7CM
Cathode ..................................... Coated Unipotential
Mounting Position ......................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Range ..................... 12-15 Volts
Heater Current at E½ = 13.5 volts .......... 150 Ma
Heater-Cathode Voltage (Absolute Maximum Values)
  Heater Negative with Respect to Cathode .... 120 Volts Max.
  Heater Positive with Respect to Cathode .... 120 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES
  (Shielded)¹ (Unshielded)

  Grid No. 1 to Plate ................. .01 .02 µuf Max.
  Input: g1 to (h+k+g2+g3+I.S.) ....... 6.5 6.5 µuf
  Output: p to (h+k+g2+g3+I.S.) ....... 3.0 2.0 µuf

RATINGS (Absolute Maximum Values)

Plate Voltage ............................... 330 Volts Max.
Grid No. 2 Supply Voltage ............... 330 Volts Max.
Grid No. 2 Voltage ....................... See Rating Chart
Plate Dissipation ......................... 2.0 Watts Max.
Grid No. 2 Input:
  For Grid No. 2 Voltages up to 165 Volts ...... 0.5 Watt Max.
  For Grid No. 2 Voltages between
     165-330 Volts .......................... See Rating Chart

CHARACTERISTICS

Class A1 Amplifier
Plate Voltage ............................ 200 Volts
Grid No. 3 Voltage ....................... Connected to Cathode
Grid No. 2 Voltage ....................... 150 Volts
Cathode Bias Resistor ................. 180 Ohms
Plate Current ................................ 9.5 Ma
Grid No. 2 Current ....................... 2.8 Ma
Transconductance ........................ 6200 µmhos
Plate Resistance (Approx.) ............. 0.6 Megohm
Ec1 for I½ = 100 µa (Approx.) .......... -7 Volts
SPECIAL TESTS

Heater Cycling Life Test
Ef = 17.0 V; 1 min. on, 4 min. off;
Ehk = -150 Vdc .................................................. 2000 Cycles Min.

Low-Frequency Vibration: Ep
G = 2.5 @ 25 cps ........................................... 250 mVac Max.

NOTE:
1. Shield No. 315 tied to cathode.
AVERAGE PLATE CHARACTERISTICS

\[ E_f = \text{RATED VALUE} \]
\[ E_{C3} = 0 \text{ VOLTS} \]
\[ E_{C2} = 150 \text{ VOLTS} \]

CURRENTS IN MILLIAMPERES

PLATE VOLTAGE
AVERAGE TRANSFER CHARACTERISTICS

$E_f =$ RATED VALUE
$E_b =$ 200 VOLTS
$E_{C3} =$ 0 VOLTS
AVERAGE TRANSFER CHARACTERISTICS

$E_f =$ RATED VALUE
$E_b =$ 200 VOLTS
$E_{C3} =$ 0 VOLTS
AVERAGE TRANSFER CHARACTERISTICS

\[ E_f = \text{RATED VALUE} \]
\[ E_b = 200 \text{ VOLTS} \]
\[ E_{C3} = 0 \text{ VOLTS} \]