MECHANICAL DATA

Bulb: T-5 1/2
Base: E7-1, Miniature Button 7-Pin
Outline: 5-2
Basing: 7FB
Cathode: Coated Unipotential
Mounting Position: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage: 12.6 Volts
Heater Current: 150 Ma
Heater-Cathode Voltage (Design Center Values)
  Heater Negative with Respect to Cathode: 30 Volts Max.
  Heater Positive with Respect to Cathode: 30 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

  Grid to Plate: 1.8 µuf
  Input: g to (h + k): 2.2 µuf
  Output: p to (h + k): 1.0 µuf
  Diode Plate to Diode Plate: 1.0 µuf

RATINGS (Design Center Values)

  Plate Voltage: 30 Volts Max.
  Cathode Current: 20 Ma Max.
  Grid Circuit Resistance: 10 Megohms Max.
  Average Diode Current: 1.0 Ma Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A Amplifier
  Plate Voltage: 12.6 Volts
  Grid Voltage: 0 Volts
  Plate Current: 750 µa
  Transconductance: 1200 µmhos
  Amplification Factor: 55
  Plate Resistance: 45000 Ohms
  Average Diode Current with 10 volts
    Applied (Each Diode): 2.0 Ma

Resistance Coupled Amplifier
  Plate Supply Voltage: 12.6 Volts
  Grid Voltage: 1.0 Megohm
  Grid Resistor: 1.0 Megohm
  Plate Load Resistor: 0.02 µf
  Input Capacitor: 0.01 µf
  Output Capacitor: 2.0 Megohms
  Grid Resistor of Following Stage: 16

NOTES:

1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Test condition only.
3. Contact potential developed across specified grid resistor.
4. Measured at an output voltage of 1.0 volt RMS.
AVERAGE PLATE CHARACTERISTICS