Oscillator Triode

General Data

Electrical:
Heater, for Unipotential Cathode:
  Voltage: 6.3 ac or dc volts
  Current: 0.225 amp
Direct Interelectrode Capacitances:
  Grid to Plate: 1.6 μf
  Grid to Cathode: 1.8 μf
  Plate to Cathode: 0.5 μf
* with no external shield.

Mechanical:
Mounting Position: Any
Overall Length: 1-7/32" ± 5/32"
Overall Diameter (Including radial pins): 1-3/32" ± 1/16"
Bulb: T-4-1/2
Base: Small Radial 7-Pin
Basing Designation for BOTTOM VIEW: 7BR

Diagram:

Pin 1 - Heater
Pin 2 - Grid
Pin 3 - Plate
Pin 4 - Plate
Pin 5 - Grid
Pin 6 - Heater
Pin 7 - Cathode

Amplifier - Class A1

Maximum Ratings, Design-Center Values:
  PLATE VOLTAGE: 500 max. volts
  PLATE DISSIPATION: 1.7 max. watts
  PLATE CURRENT: 15 max. ma
  PEAK HEATER-CATHODE VOLTAGE:
    Heater negative with respect to cathode: 80 max. volts
    Heater positive with respect to cathode: 80 max. volts

Typical Operation and Characteristics:
  Plate Voltage: 80 volts
  Cathode-Bias Resistor: 150 ohms
  Amplification Factor: 28
  Plate Resistance: 4400 ohms
  Transconductance: 6400 μmhos
  Plate Current: 9.5 ma

Maximum Circuit Values (for maximum rated conditions):
  Grid-Circuit Resistance:
    For fixed bias: Not Recommended
    For cathode bias: 0.5 max. megohm

MAY 20, 1949
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TENTATIVE DATA