High-Mu Triode

7-PIN MINIATURE TYPE
For VHF Tuner and Amplifier Applications

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .......... 6.3 ± 10% volts
Current at 6.3 volts ........ 0.2 amp
Direct Interelectrode Capacitances:

<table>
<thead>
<tr>
<th>Without External Shield</th>
<th>With External Shield</th>
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</thead>
<tbody>
<tr>
<td>Grid to plate. .......... 0.6 max.</td>
<td>0.6 max. μf</td>
</tr>
<tr>
<td>Grid to cathode, internal shield, and heater .......... 3.2</td>
<td>4 μf</td>
</tr>
<tr>
<td>Plate to cathode, internal shield, and heater .......... 3.2</td>
<td>μf</td>
</tr>
</tbody>
</table>

Characteristics, Class A1 Amplifier:
Plate Voltage. .................... 135 volts
Grid Voltage .............. -1 volt
Amplification Factor ........... 50
Plate Resistance (Approx.) .... 5600 ohms
Transconductance .............. 9000 μhmhos
Plate Current .................. 11 ma
Grid Voltage (Approx.) for plate μa = 100 .......... -5.5 volts

Mechanical:
Operating Position .................. Any
Maximum Overall Length ........... 2-1/8"
Maximum Seated Length ........... 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) .... 1-1/2" ± 3/32"
Diameter .......................... 0.650" to 0.750"
Dimensional Outline .............. See General Section
Bulb .................................. T5-1/2
Base .......................... Small-Button Miniature 7-Pin (JEDEC No. E-7-1)
Basing Designation for BOTTOM VIEW .......... 7FP

Pin 1 – Cathode
Pin 2 – Grid
Pin 3 – Heater
Pin 4 – Heater
Pin 5 – Plate
Pin 6 – Internal Shield
Pin 7 – Cathode
AMPLIFIER — Class A1

Maximum Ratings, Design—Maximum Values:

PLATE VOLTAGE: ........................................ 150 max. volts
GRID VOLTAGE:
  Positive—bias value: ................................. 0 max. volts
CATHODE CURRENT: ....................................... 22 max. ma
PLATE DISSIPATION: .................................... 2.2 max. watts
PEAK HEATER—CATHODE VOLTAGE:
  Heater negative with respect to cathode ............ 100 max. volts
  Heater positive with respect to cathode ............. 100 max. volts

Maximum Circuit Values:

Grid—Circuit Resistance:
  For cathode—bias operation: ....................... 1 max. megohm

* With external shield JEDEC NO. 316 connected to cathode.