Medium-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) 6.3 volts
Current 0.2 amp
Direct Interelectrode Capacitances (Approx.):
Grid to plate 1.2 μμf
Grid to cathode and heater 3.2 μμf
Plate to cathode and heater 1.4 μμf

Characteristics, Class A Amplifier:
Plate Supply Voltage 150 volts
Cathode Resistor 220 ohms
Amplification Factor 43
Plate Resistance (Approx.) 5400 ohms
Transconductance 7700 μμhos
Plate Current 9 ma
Grid Volts (Approx.) for plate μa = 100 –6 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.E7-1)
Basing Designation for BOTTOM VIEW 7EG

Pin 1 – Cathode
Pin 2 – Grid
Pin 3 – Heater
Pin 4 – Heater

Pin 5 – Plate
Pin 6 – Cathode
Pin 7 – Grid

AMPLIFIER — Class A

Maximum Ratings, Design-Center Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>275 max.  volts</td>
</tr>
<tr>
<td>GRID VOLTAGE:</td>
<td></td>
</tr>
<tr>
<td>Positive-bias value</td>
<td>0 max.    volts</td>
</tr>
<tr>
<td>CATHODE CURRENT</td>
<td>22 max.   ma</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>2.2 max.  watts</td>
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</table>

→ Indicates a change.
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 . . . . . . . . 0.5 max. megohm

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