Medium-Mu Twin Triode

9-PIN MINIATURE TYPE
For TV Tuners Using Direct-Coupled Cathode-Drive Circuits

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
  Voltage (AC or DC) .................. 6.3 ± 10% volts
  Current at 6.3 volts ............. 0.4 amp
Direct Interelectrode Capacitances:

<table>
<thead>
<tr>
<th>Unit No. 1</th>
<th>Unit No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to plate</td>
<td>1.2 µuf</td>
</tr>
<tr>
<td>Grid to cathode, internal shield, and heater</td>
<td>2.6 µuf</td>
</tr>
<tr>
<td>Plate to cathode, internal shield, and heater</td>
<td>1.2 µuf</td>
</tr>
<tr>
<td>Plate to cathode</td>
<td>0.12 µuf</td>
</tr>
<tr>
<td>Heater to cathode</td>
<td>2.6 µuf</td>
</tr>
<tr>
<td>Cathode to grid, internal shield, and heater</td>
<td>5 µuf</td>
</tr>
<tr>
<td>Plate to grid, internal shield, and heater</td>
<td>2.2 µuf</td>
</tr>
<tr>
<td>Plate of unit No. 1 to plate of unit No. 2</td>
<td>0.010 max. µuf</td>
</tr>
<tr>
<td>Plate of unit No. 2 to plate and grid of unit No. 1</td>
<td>0.024 max. µuf</td>
</tr>
</tbody>
</table>

Characteristics, Class A Amplifier (Each Unit):
Plate Supply Voltage .................. 150 volts
Cathode Resistor .................. 220 ohms
Amplification Factor .................. 36
Plate Resistance (Approx.) .......... 5300 ohms
Transconductance .................. 6800 µhos
Plate Current .................. 10 ma
Grid Voltage (Approx.) for plate
  µa = 100 .................. -7 volts

Mechanical:
Operating Position .................. Any
Maximum Overall Length .................. 2-3/16"
Maximum Seated Length .................. 1-15/16"
Length, Base Seat to Bulb Top (Excluding tip) .................. 1-9/16" ± 3/32"
Diameter .................. 0.750" to 0.875"
Dimensional Outline .................. See General Section
Bulb .................. Small-Button Noval 9-Pin (JEDEC No.E9-1)

Indicates a change.
Basing Designation for BOTTOM VIEW... 9AJ
Pin 1 - Plate of Unit No. 2
Pin 2 - Grid of Unit No. 2
Pin 3 - Cathode of Unit No. 2
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Plate of Unit No. 1
Pin 7 - Grid of Unit No. 1
Pin 8 - Cathode of Unit No. 1
Pin 9 - Internal Shield

AMPLIFIER — Class A₁
Values are for Each Unit

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE... 250 max. volts
PLATE DISSIPATION... 2 max. watts
CATHODE CURRENT... 20 max. ma
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 200 max. volts
Heater positive with respect to cathode. 200 max. volts

Maximum Circuit Values:
Grid-Circuit Resistance... 0.5 max. megohm

a With external shield JEDEC No.315 connected to internal shield.
b Under cutoff conditions indirect-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
c The dc component must not exceed 100 volts.

Indicates a change.
AVERAGE PLATE CHARACTERISTICS
Each Unit

$E_p = 6.3$ VOLTS

PLATE MILLIAMPERES

PLATE VOLTS

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.