MEDIUM-MU DUAL TRIODE
With Dissimilar Units

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
Voltage (AC or DC) ................. 6.3 ± 10% volts
Current ......................... 0.9 amp
Direct Inter-electrode Capacitances (Approx.):

<table>
<thead>
<tr>
<th>Unit No. 1</th>
<th>Unit No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to plate</td>
<td>4</td>
</tr>
<tr>
<td>Grid to cathode and heater</td>
<td>2.2</td>
</tr>
<tr>
<td>Plate to cathode and heater</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Characteristics, Class A\(_1\) Amplifier:

<table>
<thead>
<tr>
<th>Unit No. 1</th>
<th>Unit No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Voltage</td>
<td>250</td>
</tr>
<tr>
<td>Grid Voltage</td>
<td>0</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>22.5</td>
</tr>
<tr>
<td>Plate Resistance (Approx.)</td>
<td>9000</td>
</tr>
<tr>
<td>Transconductance</td>
<td>2500</td>
</tr>
<tr>
<td>Plate Current</td>
<td>8</td>
</tr>
<tr>
<td>Grid Voltage (Approx.) for plate ma. = 10</td>
<td>-18</td>
</tr>
<tr>
<td>Grid Voltage (Approx.) for plate ma. = 50</td>
<td>-</td>
</tr>
</tbody>
</table>

Mechanical:
Operating Position ......................... Any
Maximum Overall Length ......................... 3"
Maximum Seated Length ......................... 2-7/16"
Maximum Diameter ......................... 1-9/32"
Bulb ......................... 79
Base ......................... Intermediate-Shell Octal 8-Pin with External Barriers (JEDEC Group 1, BB-142)
Basing Designation for BOTTOM VIEW ......................... 8BD

![Diagram of Pin Layout](image.png)

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system:

DC PLATE VOLTAGE ......................... 350 max. volts
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PEAK NEGATIVE-PULSE GRID VOLTAGE. . . . . 400 max. volts
PLATE DISSIPATION . . . . . . . . . . . . 1 max. watt

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:
  For fixed-bias operation. . . . . . . 2.2 max. megohms
  For cathode-bias operation. . . . . . 2.2 max. megohms

VERTICAL-DEFLECTION AMPLIFIER
Values are for Unit No. 2

Maximum Ratings, Design-Maximum Values:
  For operation in a 525-line, 30-frame system
DC PLATE VOLTAGE. . . . . . . . . . . 550 max. volts
PEAK POSITIVE-PULSE PLATE VOLTAGE/. . . . 2500 max. volts
PEAK NEGATIVE-PULSE GRID VOLTAGE. . . . . 250 max. volts

CATHODE CURRENT:
  Peak. . . . . . . . . . . . . . . . . . . . 150 max. ma
  Average . . . . . . . . . . . . . . . . . 50 max. ma

PLATE DISSIPATION . . . . . . . . . . . . 10 max. watts

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:
  For fixed-bias operation. . . . . . . 2.2 max. megohms

- Without external shield.
- This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- The dc component must not exceed 100 volts.
- This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.
6DN7

MEDIUM-MU DUAL TRIODE

With Dissimilar Units

T9 BULB

BASE
JEDEC GROUP 1
N888-142

1.188" MAX.
1.062" MIN.
DIA.

2 7/16" MAX.
3" MAX.

1 3/2 MAX. DIA.

92CS-10241

ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY