Dual Triode
With High-Mu Unit and Low-Mu Unit

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
Voltage (AC or DC) .................. 6.3 ± 10% volts
Current at 6.3 volts ................ 1.05 amp
Direct Interelectrode Capacitances
(Approx.):

Unit No.1 Unit No.2
Grid to plate .......... 4 8 μf
Grid to cathode and heater... 2.2 6 μf
Plate to cathode and heater .. 0.6 1.3 μf

Characteristics, Class A, Amplifier:

Unit No.1 Unit No.2
Plate Voltage .............. 250 60 175 volts
Grid Voltage ................ -3 0 -25 volts
Amplification Factor ......... 66 - 5.5
Plate Resistance (Approx.) ... 30,000 - 920 ohms
Transconductance .......... 2200 - 6000 μmhos
Plate Current .............. 2 100b 40 ma
Grid Voltage (Approx.) for
plate μa = 20 ................ -5.3 - - volts
Grid Voltage (Approx.) for
plate μa = 200 ............. - - -45 volts

Mechanical:
Operating Position . Any
Maximum Overall Length ...... 3"
Maximum Seated Length ...... 2-7/16"
Maximum Diameter .......... 1-9/32"
Bulb ......................... T9
Base .................. Intermediate-Shell Octal 8-Pin (JEDEC Group 1, B8-6)
Basing Designation for BOTTOM VIEW .. 8BD

Pin 1 – Grid of
Unit No.2
Pin 2 – Plate of
Unit No.2
Pin 3 – Cathode of
Unit No.2
Pin 4 – Grid of
Unit No.1
Pin 5 – Plate of
Unit No.1
Pin 6 – Cathode of
Unit No.1
Pin 7 – Heater
Pin 8 – Heater
VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC PLATE VOLTAGE</td>
<td>350 max. volts</td>
</tr>
<tr>
<td>PEAK NEGATIVE-PULSE GRID VOLTAGE</td>
<td>400 max. volts</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>1 max. watt</td>
</tr>
<tr>
<td>PEAK HEATER-CATHODE VOLTAGE:</td>
<td></td>
</tr>
<tr>
<td>Heater negative with respect to</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>cathode</td>
<td></td>
</tr>
<tr>
<td>Heater positive with respect to</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>cathode</td>
<td></td>
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</table>

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation. . . . . . . . . . 1 max. megohm
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC PLATE VOLTAGE</td>
<td>550 max. volts</td>
</tr>
<tr>
<td>PEAK POSITIVE-PULSE PLATE VOLTAGE</td>
<td>1500 max. volts</td>
</tr>
<tr>
<td>PEAK NEGATIVE-PULSE GRID VOLTAGE</td>
<td>250 max. volts</td>
</tr>
<tr>
<td>CATHODE CURRENT:</td>
<td></td>
</tr>
<tr>
<td>Peak.</td>
<td>175 max. ma</td>
</tr>
<tr>
<td>Average</td>
<td>50 max. ma</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>10 max. watts</td>
</tr>
<tr>
<td>PEAK HEATER-CATHODE VOLTAGE:</td>
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</tr>
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<td>Heater negative with respect to</td>
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Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation. . . . . . . . . . 1 max. megohm
For cathode-bias operation. . . . . . . . . 2.2 max. megohms

a Without external shield.
b 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.
c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
d The dc component must not exceed 100 volts.
e This rating is applicable where 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.