PAN-O-PLY TYPE WITH MOUNTING LUGS

90° MAGNETIC DEFLECTION
LOW-VOLTAGE ELECTROSTATIC FOCUS
LOW-GRID-No.2 VOLTAGE
CATHODE-DRIVE TYPE

ELECTRICAL

Direct Interelectrode Capacitances
Cathode to all other electrodes... 5 pF
Grid No.1 to all other electrodes... 6 pF
External conductive coating to anode... 1700 min—2500 max pF
Heater Current at 6.3 V... 450 ± 20 mA
Heater Warm-Up Time (Average)... 11 s
Electron Gun... Type Requiring No Ion-Trap Magnet

OPTICAL

Phosphor... P4—Sulfide Type, Aluminized
For curves, see front of this section
Faceplate... Filterglass
Light transmission at center (approx.)... 42%

MECHANICAL

Weight (Approx.)... 30 lb
Overall Length... 17.080 ± .312 in
Neck Length... 5.000 ± .125 in
Projected Area of Screen... 282 sq in
External Conductive Coating
Type... Regular-Band
Contact area for grounding... Near Reference Line
For Additional Information on Coatings and Dimensions
See Picture-Tube Dimensional-Outlines and Bulb J187M sheets
at front of this section
Cap... Recessed Small Cavity (JEDEC No.J1-21)
Base... Small-Button Necoightr 7-Pin,
Arrangement I, (JEDEC No.B7-208)

TERMINAL DIAGRAM (Bottom View)

Pin 1—Heater
Pin 2—Grid No.1
Pin 3—Grid No.2
Pin 4—Grid No.4
Pin 6—Grid No.1
Pin 7—Cathode
Pin 8—Heater
Cap—Anode (Grid No.3,
Grid No.5, Screen,
Collector)
C—External Conductive
Coating

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DATA
10-66
MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

Voltages are positive with respect to Grid No. 1

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>Anode Voltage</td>
<td>11000</td>
<td>23500</td>
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<tr>
<td>Grid-No.4 Voltage</td>
<td>1250</td>
<td>max</td>
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<tr>
<td></td>
<td>400</td>
<td>max</td>
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<tr>
<td>Grid-No.2 Voltage</td>
<td>20</td>
<td>70</td>
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<tr>
<td>Cathode Voltage</td>
<td>2</td>
<td>max</td>
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<tr>
<td></td>
<td>0</td>
<td>max</td>
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<tr>
<td></td>
<td>100</td>
<td>max</td>
</tr>
<tr>
<td></td>
<td>150</td>
<td>max</td>
</tr>
<tr>
<td>Heater Voltage</td>
<td>5.7</td>
<td>6.9</td>
</tr>
</tbody>
</table>

Peak Heater-Cathode Voltage

Heater negative with respect to cathode:
- During equipment warm-up period ≤ 15 s: 450 max
- After equipment warm-up period: 300 max

Heater positive with respect to cathode:
- Combined AC & DC voltage: 200 max
- DC component: 100 max

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Voltages are positive with respect to grid No. 1

<table>
<thead>
<tr>
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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode Voltage</td>
<td>18000</td>
</tr>
<tr>
<td>Grid-No.4 Voltage</td>
<td>200</td>
</tr>
<tr>
<td>Grid-No.2 Voltage</td>
<td>50</td>
</tr>
<tr>
<td>Cathode Voltage</td>
<td>34 to 52</td>
</tr>
</tbody>
</table>

For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance: 1.5 max MΩ

a Includes implosion protection hardware.
b The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between 0 and +400 volts with the combined grid-No.1 voltage and video-signal voltage adjusted to give an anode current of 200 microamperes on a 13-1/2 inch by 18-inch pattern from an RCA-2F21 monoscope, or equivalent.

For X-radiation shielding considerations, see sheet X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at front of this section

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