FILLED-RIM TYPE

110° MAGNETIC DEFLECTION

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th>Capacitance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cathode to all other electrodes</td>
<td>5 pF</td>
</tr>
<tr>
<td>Grid No.1 to all other electrodes</td>
<td>6 pF</td>
</tr>
<tr>
<td>External conductive coating to anode</td>
<td>1700 min—2500 max pF</td>
</tr>
</tbody>
</table>

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

Faceplate . . . . . . . . . . . . . Filterglass

Light transmission at center (Approx.) 42%

MECHANICAL

Weight (Approx.) 29 lb

Overall Length 14.250 ± .281 in

Neck Length 4.500 ± .125 in

Projected Area of Screen 282 sq in

EXTERNAL CONDUCTIVE COATING

Type Regular-Band Near Reference Line

Cap. Recessed Small Cavity (JEDEC No.JL-21)

Base Small-Button Neneightar 7-Pin, Arrangement 1, (JEDEC No.B7-208)

TERMINAL DIAGRAM (Bottom View)

MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode Voltage</td>
<td>11000 min—23000 max V</td>
</tr>
<tr>
<td>Grid-No.4 Voltage</td>
<td>Positive value 1250 max V</td>
</tr>
<tr>
<td></td>
<td>Negative value 400 max V</td>
</tr>
<tr>
<td>Grid-No.2 Voltage</td>
<td>25 min—60 max V</td>
</tr>
<tr>
<td>Cathode Voltage</td>
<td>Negative peak value 2 max V</td>
</tr>
<tr>
<td></td>
<td>Negative bias value 0 max V</td>
</tr>
<tr>
<td></td>
<td>Positive bias value 100 max V</td>
</tr>
<tr>
<td></td>
<td>Positive peak value 150 max V</td>
</tr>
<tr>
<td>Heater Voltage</td>
<td>5.7 min—6.9 max V</td>
</tr>
</tbody>
</table>
Peak Heater-Cathode Voltage
Heater negative with respect to cathode:
   During equipment warm-up period ≤ 15 s ... 450 max V
   After equipment warm-up period ... 300 max V
Heater positive with respect to cathode:
   Combined AC & DC voltage ... 200 max V
   DC component ... 100 max V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE
Voltages are positive with respect to grid No.1
Anode Voltage ... 16000 V
Grid-No.4 Voltage ... 0 to 400 V
Grid-No.2 Voltage ... 50 V
Cathode Voltage ... 32 to 50 V
For visual extinction of focused raster
Field Strength ... 0 to 10 G
Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE
Grid-No.1 Circuit Resistance ... 1.5 max MΩ

* Includes implosion protection hardware.

DIMENSIONAL OUTLINE
(Bulb J187 K)

MINIMUM SCREEN
DIAGONAL 22.312
GREATEST WIDTH 19.250
GREATEST HEIGHT 15.125

SHELL OPENING 19.939
50 R.

REFERENCE LINE
DETERMINED BY GAUGE
JEDEC NO. G-126

RCA
RADIO CORPORATION OF AMERICA
Electronic Components and Devices
Harrison, N. J.