**Rectangular Glass Type**

**Low-Voltage Electrostatic Focus**

**Aluminized Screen**

**70° Magnetic Deflection**

**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: [1500 max. pf, 750 min. pf]

Heater Current at 6.3 volts: 600 ± 30 ma

Electron Gun: Type Requiring No Ion-Trap Magnet

**Optical:**

Phosphor (For curves, see front of this section). P4—Sulfide Type, Aluminized

Faceplate, Spherical: Filterglass

Light transmission (Approx.): 74%

**Mechanical:**

Weight (Approx.): 18 lbs

Overall Length: 19-3/16" ± 3/8"

Neck Length: 7-1/2" ± 3/16"

Projected Area of Screen: 149 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 J13 B/D sheets at front of this section.

Cap: Recessed Small Cavity (JEDEC No.J1-21)

Base: Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-63)

Basing Designation for BOTTOM VIEW: 12L

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**Maximum and Minimum Ratings, Design-Maximum Values:**

*Unless otherwise specified, voltage values are positive with respect to cathode*

**ANODE VOLTAGE:**

17500 max. volts

**GRID-No.4 (FOCUSBING) VOLTAGE:**

Positive value: 1100 max. volts

Negative value: 550 max. volts

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**RCA**

Electronic Components and Devices

Harrison, N.J.

DATA

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<table>
<thead>
<tr>
<th>Component</th>
<th>Voltage Range</th>
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<tbody>
<tr>
<td>GRID-No.2 VOLTAGE</td>
<td>550 max. volts</td>
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<tr>
<td>GRID-No.1 VOLTAGE:</td>
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<tr>
<td>Negative peak value</td>
<td>220 max. volts</td>
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<tr>
<td>Negative bias value</td>
<td>155 max. volts</td>
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<tr>
<td>Positive bias value</td>
<td>0 max. volts</td>
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<tr>
<td>Positive peak value</td>
<td>2 max. volts</td>
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<tr>
<td>HEATER VOLTAGE</td>
<td>{6.9 max. volts, 5.7 min. volts}</td>
</tr>
<tr>
<td>PEAK HEATER–CATHODE VOLTAGE:</td>
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<tr>
<td>Heater negative with respect to cathode:</td>
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<tr>
<td>During equipment warm-up period not exceeding 15 seconds</td>
<td>450 max. volts</td>
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<tr>
<td>After equipment warm-up period</td>
<td>200 max. volts</td>
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<tr>
<td>Heater positive with respect to cathode:</td>
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<tr>
<td>Combined AC and DC voltage</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>DC component</td>
<td>100 max. volts</td>
</tr>
</tbody>
</table>

**Typical Operating Conditions for Grid-Drive Service:**

Unless otherwise specified, voltage values are positive with respect to cathode.

- Anode Voltage: 14000 volts
- Grid-No.4 Voltage: -56 to +310 volts
- Grid-No.2 Voltage: 300 volts
- Grid-No.1 Voltage for visual extinction of focused raster: -28 to -72 volts

**Maximum Circuit Value:**

- Grid-No.1-Circuit Resistance: 1.5 max. megohms

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