PAN-O-PLY Type with Mounting Lugs
110° Magnetic Deflection Low-Voltage Electrostatic Focus

Direct Inter electrode 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
Faceplate ... Filterglass
Light transmission at center (Approx.) ... 42%

Mechanical
Weight (Approx.) ... 28.5 lb
Overall Length ... 14.875 ± .281 in
Neck Length ... 5.125 ± .125 in
Projected Area of Screen ... 282 sq in
External Conductive Coating
Type (see CRT OUTLINES 1 at front of this section)... Regular-Band
Contact area for grounding ... Near Reference Line
Cap ... Recessed Small Cavity (JEDEC No. J1-21)
Base ... Small-Button Neoeightar 7-Pin, Arrangement 1, (JEDEC No. B7-208)

Terminal Diagram (Bottom View)

Anode Voltage ... 11000 min—23000 max V
Grid-No. 4 Voltage
Positive value ... 1100 max V
Negative value ... 550 max V
Grid-No. 2 Voltage ... 200 min—550 max V
Grid-No. 1 Voltage
Positive peak value ... 220 max V
Negative bias value ... 155 max V
Positive bias value ... 0 max V
Positive peak value ... 2 max V
Heater Voltage ... 5.7 min—6.9 max V

Maximum and Minimum Ratings, Design-Maximum Values
Voltages are positive with respect to cathode

RCA
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Data 12-66
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 .................. 18000 V
- Grid-No.4 Voltage b ............. 200 V
- Grid-No.2 Voltage ................. 300 V
- Cathode Voltage ................ 28 to 62 V

For visual extinction of focused raster

- Field Strength .................. 0 to 12 G

Of required adjustable centering magnet

**MAXIMUM CIRCUIT VALUE**

- Grid-No.1 Circuit Resistance .......... 1.5 max MΩ

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**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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**DIMENSIONAL OUTLINE (Bulb J187 K With Mounting Lugs)**

**MINIMUM SCREEN**

- Diagonal .................. 22.312
- Greatest Width .......... 19.250
- Greatest Height ....... 15.125

**RIM-BAND OPENING**

- 20650 ± 125

**DIMENSIONS**

- In Inches

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**REFERENCE LINE**

Determined by gauge

JEDEC No. G-126

**DATA**

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