

Picture Tube

PAN-O-PLY TYPE
110° MAGNETIC DEFLECTION

LOW-VOLTAGE ELECTROSTATIC FOCUS
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

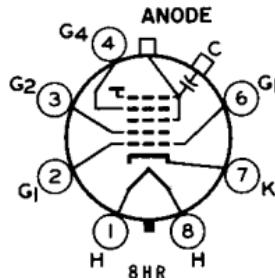
Weight (Approx.). 28 lb
Overall Length. $14.250 \pm .281$ in
Neck Length $4.500 \pm .125$ in
Projected Area of Screen. 282 sq in
External Conductive Coating^a

Type. Regular-Band
Contact area for grounding. Near Reference Line
For Additional Information on Coatings Dimensions
See *Picture-Tube Dimensional-Outlines* and *Bulb J187K* sheets
at front of this section

Cap. Recessed Small Cavity (JEDEC No.J1-21)
Base. Small-Button Neoeightar 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



23GJP4A

MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

Voltages are positive with respect to grid No. 1

| | | |
|---|---------------------|---|
| Anode Voltage | 11000 min—23000 max | V |
| Grid-No.4 Voltage | | |
| Positive value | 1250 max | V |
| Negative value | 400 max | V |
| Grid-No.2 Voltage | 40 min—70 max | V |
| Cathode Voltage | | |
| Negative peak value. | 2 max | V |
| Negative bias value. | 0 max | V |
| Positive bias value. | 100 max | V |
| Positive peak value. | 150 max | V |
| Heater Voltage | 5.7 min—6.9 max | V |
| Peak Heater-Cathode Voltage | | |
| Heater negative with respect to cathode: | | |
| During equipment warm-up period \leq 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 | |
| Grid-No.4 Voltage. | 0 to 400 | V |
| Grid-No.2 Voltage. | 50 | V |
| Cathode Voltage. | 34 to 52 | V |

For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

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

^a Includes implosion protection hardware.

For X-radiation shielding considerations, see sheet

X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at
front of this section

