

Picture Tube

PAN-O-PLY TYPE

110° MAGNETIC DEFLECTION

LOW-VOLTAGE ELECTROSTATIC FOCUS

Direct Interelectrode Capacitances

Cathode to all other electrodes. 5 pF

Grid No.1 to all other electrodes. 6 pF

External conductive coating to anode . . . 500 min—750 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.) 79%

MECHANICAL

Weight (Approx.) 4 lb

Overall Length 8.785 ± .250 in

Neck Length. 4.125 ± .125 in

Projected Area of Screen 60 sq in

External Conductive Coating^a

Type (See CRT OUTLINES I 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)

Pin 1—Heater

Pin 2—Grid No.1

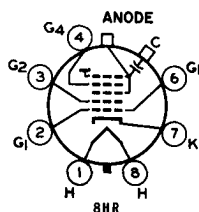
Pin 3—Grid No.2

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

MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

Voltages are positive with respect to cathode

Anode Voltage. 8000 min—15000 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

Negative 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



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 GRID-DRIVE SERVICE

Voltages are positive with respect to cathode

Anode Voltage. 12000 V

Grid-No.4 Voltage. 0 to 400 V

Grid-No.2 Voltage. 400 V

Grid-No.1 Voltage. -39 to -94 V

For visual extinction of focused raster

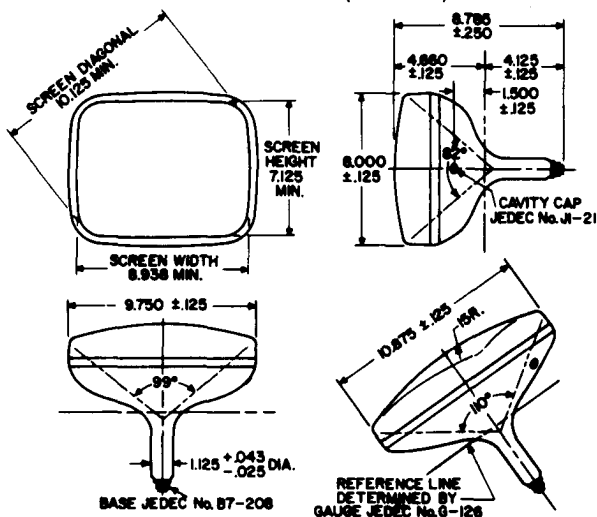
MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance 1.5 max $\text{M}\Omega$

^a Includes implosion protection hardware.

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

DIMENSIONAL OUTLINE (BULB J87A)



92CS-14055

DIMENSIONS IN INCHES