

## Picture Tube

FILLED-RIM TYPE  
**110° MAGNETIC DEFLECTION**      **INTERMEDIATE-GRID-No.2 VOLTAGE**

### Direct Interelectrode Capacitances

Cathode to all other electrodes. . . . .	5	pF
Grid No.1 to all other electrodes. . . . .	6	pF
External conductive coating to anode <sup>a</sup> . . . . .	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.) . . . . .	52 %

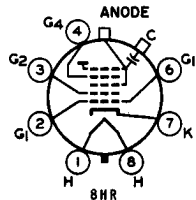
### MECHANICAL

Weight (Approx.) . . . . .	5 lb
Overall Length . . . . .	8.785 ± .250 in
Neck Length . . . . .	4.125 ± .125 in
Projected Area of Screen . . . . .	60 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)

- 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. . . . .	100 min—250 max	V
Cathode 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



# 11GP4

## 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 . . . . . 11000 V

Grid-No.4 Voltage . . . . . 0 V

Grid-No.2 Voltage . . . . . 150 V

Cathode Voltage . . . . . .31 to 49 V

For visual extinction of focused raster

## MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance. . . . . 1.5 max  $\Omega$

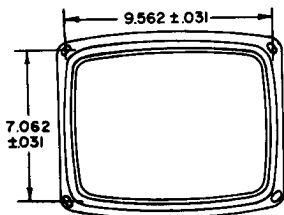
<sup>a</sup> Includes implosion protection hardware.

For X-radiation shielding considerations, see sheet

*X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES*

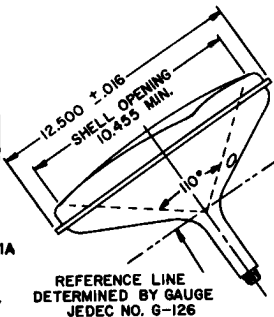
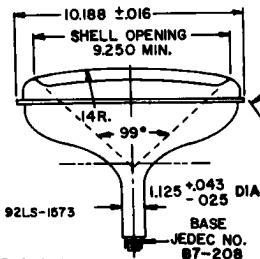
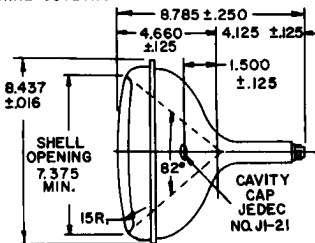
at front of this section

## DIMENSIONAL OUTLINE



### MINIMUM SCREEN

DIAGONAL 10.250  
GREATEST WIDTH 9.000  
GREATEST HEIGHT 7.062



DIMENSIONS IN INCHES

