

23BGP4

Picture Tube

**LOW-VOLTAGE ELECTROSTATIC FOCUS
BI-PANEL TYPE
NO ION-TRAP MAGNET REQUIRED**

**LOW-GRID-No. 2 VOLTAGE
CATHODE-DRIVE TYPE
110° 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	{ 2500 max. { 1700 min.	pf
		600 ± 30
Heater Current at 6.3 volts.	11	seconds
Heater Warm-up Time (Average)		
Electron Gun Type Requiring No Ion-Trap Magnet		

Optical:

Phosphor	P4—Sulfide Type, Aluminized
(For Curves, see front of this Section)	
Faceplate and Protective Panel	Filterglass
Light transmission (Approx.)	40%

Mechanical:

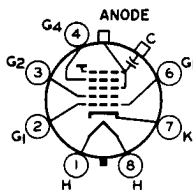
Weight (Approx.)	33 lbs
Overall Length	15.188" ± .375"
Neck Length	5.125" ± .125"
Projected Area of Screen	282 sq. in.

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 J187 A* sheets
 at front of this section

Cap.	Recessed Small Cavity (JEDEC No. J1-21)
Base	Small-Button Neeoightar 7-Pin Arrangement 1, (JEDEC No. B7-208)
Basing Designation for BOTTOM VIEW	8HR

- 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



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Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values are positive with respect to grid No. 1

Anode Voltage	{ 22000 max. 12000 min.	volts volts
Grid-No.4 (Focusing) Voltage:		
Positive value	1100 max.	volts
Negative value	550 max.	volts
Grid-No.2 Voltage	{ 70 max. 40 min.	volts volts
Cathode Voltage:		
Negative peak value	2 max.	volts
Negative bias value	0 max.	volts
Positive bias value	155 max.	volts
Positive peak value	220 max.	volts
Heater Voltage	{ 6.9 max. 5.7 min.	volts volts
Peak Heater-Cathode Voltage:		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds	450 max.	volts
After equipment warm-up period	200 max.	volts
Heater positive with respect to cathode:		
Combined AC and DC voltage	200 max.	volts
DC component	100 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

Unless otherwise specified, voltage values are positive with respect to grid No. 1

Anode Voltage	16000 max.	volts
Grid-No.4 Voltage	0 to 400	volts
Grid-No.2 Voltage	50	volts
Cathode Voltage for visual extinction of focused raster	32 to 50	volts

Maximum Circuit Value:

Grid-No.1-Circuit Resistance	1.5 max.	megohms
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For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at
front of this section

