

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 pf
Heater Current at 6.3 volts.	600 ± 30	ma
Heater Warm-up Time (Average).	11	seconds
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:	

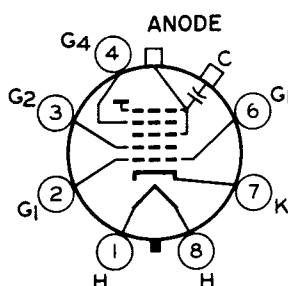
Type	Regular-Band
Contact area for grounding	Near Reference Line
For Additional Information on Coatings and Dimensions:	

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 Neoeightar 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

