

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

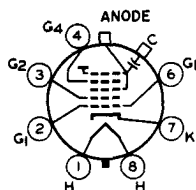
Pin 6—Grid No.1

Pin 7—Cathode

Pin 8—Heater

Cap—Anode (Grid No.3,
 Grid No.5,
 Screen, Collector)

C—External
 Conductive Coating



23BGP4

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