

23DBP4

Picture Tube

LOW-VOLTAGE ELECTROSTATIC FOCUS

NO ION-TRAP MAGNET REQUIRED

ALUMINIZED SCREEN

RECTANGULAR GLASS TYPE

110° MAGNETIC DEFLECTION

Low-Grid-No.2-Voltage—for Cathode-Drive Operation

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. 2000 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 (For curves, see front of this section) .P4—Sulfide Type, Aluminized	
Faceplate.	Filterglass
Light transmission (Approx.)	75%

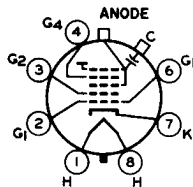
Mechanical:

Weight (Approx.)	25 lbs
Overall length	14.875" ± .281"
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 E*
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) or (JEDEC No. B7-237)
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.	volts
	{ 15000 min.	volts
Grid-No.4 (Focusing) Voltage:		
Positive value	1250 max.	volts
Negative value	400 max.	volts
Grid-No.2 Voltage.	250 max.	volts
Grid-No.2 to Cathode Voltage	{ 100 max.	volts
	{ 40 min.	volts
Cathode Voltage:		
Positive peak value.	220 max.	volts
Positive bias value.	155 max.	volts
Negative bias value.	0 max.	volts
Negative peak value.	2 max.	volts
Heater Voltage	{ 6.9 max.	volts
	{ 5.7 min.	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	300 max.	volts
Heater positive with respect to cathode	200 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

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

Anode Voltage.	18000	volts
Grid-No.4 Voltage.	250	volts
Grid-No.2 Voltage.	50	volts
Cathode Voltage for visual extinction of focused raster	34 to 52	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 on this Section

