

23CQP4

Picture Tube

LOW-VOLTAGE ELECTROSTATIC FOCUS

NO ION-TRAP MAGNET REQUIRED

114° 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.	pf
	{ 1700 min.	pf

Heater Current at 6.3 volts 450 ± 20 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 Window Filterglass

Light transmission (Approx.) 78%

Mechanical:

Weight (Approx.) 24 lbs

Overall Length. 13.781" ± .281"

Neck Length 4.375" ± .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 J187B* 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

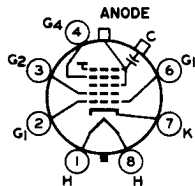
Pin 7-Cathode

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 cathode

Anode Voltage	{ 23500 max.	volts
	{ 11000 min.	volts
Grid-No.4 (Focusing) Voltage:		
Positive value	1100 max.	volts
Negative value	550 max.	volts
Grid-No.2 Voltage	{ 550 max.	volts
	{ 200 min.	volts
Grid-No.1 Voltage:		
Negative peak value	220 max.	volts
Negative bias value	155 max.	volts
Positive bias value	0 max.	volts
Positive 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	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	14000	volts
Grid-No.4 Voltage	0 to 400	volts
Grid-No.2 Voltage	400	volts
Cathode Voltage for visual extinction		
of focused raster	36 to 78	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

