

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. 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

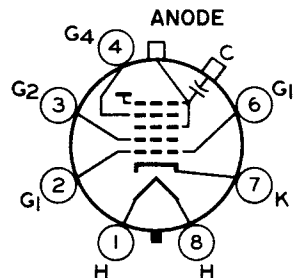
Pin 7—Cathode

Pin 8—Heater

Cap—Anode

(Grid No.3, Grid No.5,
Screen, Collector)

C—External Conductive Coating



23CQP4

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
---------------------------------------	----------	---------

For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at
front of this section