

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 $\pm$ 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" $\pm$.281"Neck Length 4.375" $\pm$.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

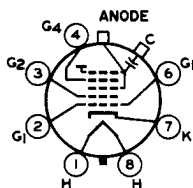
Pin 7—Cathode

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