

Picture Tube

BI-PANEL RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
110° MAGNETIC DEFLECTION

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Current at 6.3 volts.	450 ± 5%	ma
Heater Warm-Up Time (Average).	11	seconds
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes. . .	6	μuf
Cathode to all other electrodes. . . .	5	μuf
External conductive coating to ultor .	{ 2500 max. 2000 min.	μuf
Electron Gun		μuf

Type Requiring No Ion-Trap Magnet

Optical:

Faceplate and Protective Panel	Filterglass
Light transmission (Approx.)	40%
Phosphor (For curves, see front of this Section)	P4—Sulfide Type, Aluminized

Mechanical:

Operating Position	Any
Weight (Approx.)	32-1/2 lbs
Overall Length	15-3/16" ± 3/8"
Neck Length.	5-1/8" ± 1/8"
Projected Area of Screen	282 sq. in.

External Conductive Coating:

Type	Regular Band
Contact area for grounding	Near Reference Line

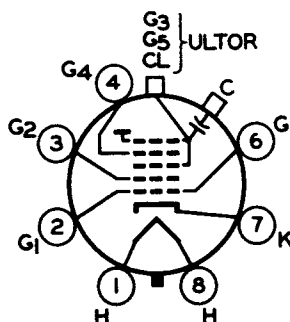
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines* and *Bulb J187 A* sheets at the 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 - Ultor
- (Grid No.3,
Grid No.5,
Collector)
- C - External
Conductive
Coating



23BQP4

Maximum and Minimum Ratings, *Design-Maximum Values:*

ULTOR VOLTAGE.	{ 23000 max.	volts
	{ 12000 min.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value	1100 max.	volts
Negative value	550 max.	volts
GRID-No.2 VOLTAGE.	550 max.	volts
GRID-No.1 VOLTAGE:		
Negative peak value.	220 max.	volts
Negative bias value.	154 max.	volts
Positive bias value.	0 max.	volts
Positive peak value.	2 max.	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	200 max.	volts

Typical Operating Conditions:

<i>With ultor voltage of</i>	16000	<i>volts</i>
<i>and grid-No.2 voltage of</i>	300	<i>volts</i>
Grid-No.4 Voltage for focus.	0 to 400	volts
Grid-No.1 Voltage for visual extinction of focused raster	-35 to -72	volts

Maximum Circuit Values:

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