

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	μf
Cathode to all other electrodes. . . .	5	μf
External conductive coating to ultor .	{ 2500 max.	μf
	{ 2000 min.	μf
Electron Gun	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:

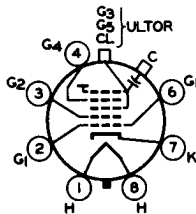
Operating Position	Any
Weight (Approx.)	32-1/2 lbs
Overall Length	15-3/16" ± 3/8"
Neck Length.	5-1/8" ± 1/8"
Projected Area of Screen	282 sq. in.

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 VIEW8HR

- 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. 12000 min.	volts
		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:

With ultor voltage of	16000	volts
and grid-No.2 voltage of	300	volts
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

