

Picture Tube

BI-PANEL RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS
LOW GRID-No.2 VOLTAGE

ALUMINIZED SCREEN
92° MAGNETIC DEFLECTION
CATHODE-DRIVE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Current at 6.3 volts 600 ± 30 ma
Heater Warm-Up Time (Average) 11 seconds

Direct Interelectrode Capacitances:

Grid No.1 to all other electrodes 6 $\mu\mu$ f

Cathode to all other electrodes 5 $\mu\mu$ f

External conductive coating to ulti. $\begin{cases} 2500 \text{ max.} \\ 1700 \text{ min.} \end{cases}$ $\mu\mu$ f

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.). 35 lbs

Overall Length. 18-7/16" ± 7/16"

Neck Length. 5-5/8" ± 3/16"

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:

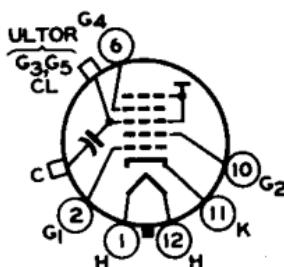
See Picture-Tube Dimensional-Outlines and Bulb J187 D/G sheets
at the front of this section

Cap. Recessed Small Cavity (JEDEC No.J1-21)

Base. Short Small-Shell Duodecal 6-Pin
(JEDEC Group 4, No.B6-203)

Basing Designation for BOTTOM VIEW. 12L

- Pin 1 - Heater
- Pin 2 - Grid No.1
- Pin 6 - Grid No.4
- Pin 10 - Grid No.2
- Pin 11 - Cathode
- Pin 12 - Heater



Cap - Ultor
(Grid No.3
Grid No.5,
Collector)

C - External
Conductive
Coating



23BKP4

Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR-TO-GRID-No.1 VOLTAGE	{ 25000 max.	volts
	{ 15000 min.	volts
GRID-No.4-TO-GRID-No.1 (FOCUSING) VOLTAGE:		
Positive value	1250 max.	volts
Negative value	400 max.	volts
GRID-No.2-TO-GRID-No.1 VOLTAGE	{ 225 max.	volts
	{ 40 min.	volts
GRID-No.2-TO-CATHODE VOLTAGE	70 max.	volts
CATHODE-TO-GRID-No.1 VOLTAGE:		
Positive peak value	220 max.	volts
Positive bias value	154 max.	volts
Negative bias value	0 max.	volts
Negative 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.	200 max.	volts

Typical Operating Conditions:

With ultor-to-grid-No.1 voltage of	20000	volts
and grid-No.2-to-grid-No.1 voltage of	50	volts
Grid-No.4-to-Grid-No.1 Voltage for focus.	0 to 400	volts
Cathode-to-Grid-No.1 Voltage for visual extinction of focused raster . .	36 to 54	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

