

Picture Tube

BI-PANEL RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
92° MAGNETIC DEFLECTION

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Current at 6.3 volts	600 ± 5%	ma
Heater Warm-Up Time (Average)	11	seconds
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes	6	μmf
Cathode to all other electrodes	5	μmf
External conductive coating to ultor.	{ 2500 max. 2000 min.	{ μmf μmf
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.).	34-1/2 lbs
Overall Length.	18-5/16" ± 7/16"
Neck Length	5-1/2" ± 3/16"
Projected Area of Screen.	282 sq. in.
External Conductive Coating:	

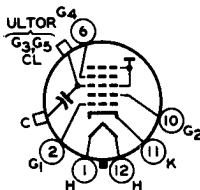
Type. Regular Band
 Contact area for grounding. Near Reference Line
 For Additional Information on Coatings and Dimensions:

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



23YP4

Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR VOLTAGE	{ 22000 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	155 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	volts
<i>and grid-No.2 voltage of</i>	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
---------------------------------------	----------	---------

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

