

Picture Tube

BIPANEL 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	μμf
Cathode to all other electrodes	5	μμf
External conductive coating to ultor.	{ 2500 max. 2000 min.	{ μμf μμf
Electron Gun.	Type Requiring No Ion-Trap Magnet	

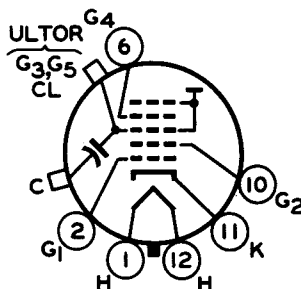
Optical:

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.	18-13/16" ± 7/16"
Neck Length.	6" ± 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 <i>Picture-Tube Dimensional-Outlines</i> and <i>Bulb J187 D/G</i> sheets at the front of this section	
Cap	Recessed Small Cavity (JEDEC No. J1-21)
Base.	Short Small-Shel 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



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

ULTOR VOLTAGE	{25000 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>	<i>20000</i>	<i>volts.</i>
<i>and grid-No.2 voltage of</i>	<i>300</i>	<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