

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	μf
Cathode to all other electrodes	5	μf
External conductive coating to ultor.	{ 2500 max.	μf
	{ 1700 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.).	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:	

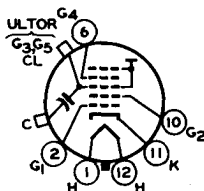
Type.	Regular Band
Contact area for grounding.	Near Reference Line
For Additional Information on Coatings and Dimensions:	

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

