

Picture Tube

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	μuf
Cathode to all other electrodes.	5	μuf
External conductive coating to ultor	{2500 max. 1700 min.	{μuf μuf
Electron Gun	Type Requiring No Ion-Trap Magnet	

Optical:

Faceplate.	Filterglass
Light transmission (Approx.)	78%
Phosphor (For curves, see front of this Section) .P4—Sulfide Type, Aluminized	

Mechanical:

Operating Position	Any
Weight (Approx.)	25 lbs
Overall Length	18-1/8" ± 3/8"
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

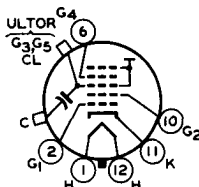
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines* and *Bulb J187 C/F* 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.86-203)

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



23BJP4

Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR-TO-GRID-No.1 VOLTAGE.	{ 25000 max. 11000 min.	volts volts
GRID-No.4-TO-GRID-No.1 (FOCUSING) VOLTAGE:		
Positive value.	1250 max.	volts
Negative value.	450 max.	volts
GRID-No.2 TO-GRID-No.1 VOLTAGE.	{ 225 max. 40 min.	volts 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. 5.7 min.	volts 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

