

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
92° MAGNETIC DEFLECTION

GENERAL DATA

Electrical:

Heater Current at 6.3 volts	600 ± 5%	ma
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes	6	μmf
Cathode to all other electrodes	5	μmf
External conductive coating to ultor.	{2000 max. 1500 min.	{μmf μmf
Electron Gun.	Type Requiring No	Ion-Trap Magnet

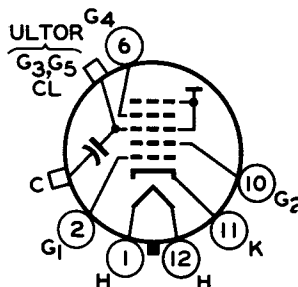
Optical:

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

Mechanical:

Operating Position.	Any
Weight (Approx.).	14-3/4 lbs
Overall Length.	15-1/4" ± 3/8"
Neck Length	5-1/2" ± 3/16"
Projected Area of Screen.	172 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 J149 B</i> sheets at the front of this section	
Cap	Recessed Small Cavity (JEDEC No.J1-21)
Bases (Alternates):	
Short Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-203)	
Small-Shell Duodecal 6-Pin, Arrangement 1 (JEDEC Group 4, No.B6-63)	
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



19BFP4

Maximum Ratings, *Design-Maximum Values*:

ULTOR VOLTAGE	20000 max.	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 bias value	154 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>	400	volts.
Grid-No.4 Voltage for focus	0 to 400	volts
Grid-No.1 Voltage for visual extinction of focused raster.	-36 to -94	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

