

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.	μmf
	{1500 min.	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 *Picture-Tube Dimensional-Outlines* and *Bulb J149 B* sheets
at the front of this section

Cap Recessed Small Cavity (JEDEC No.J1-21)

Bases (Alternates):

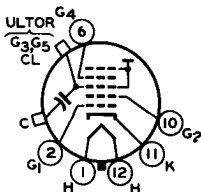
Short Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-203)

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:

With ultor voltage of	16000	volts.
and grid-No.2 voltage of	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

