

21CBP4A

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION

GENERAL DATA

Electrical:

Heater Current at 6.3 volts 600 ± 10% ma

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
	{ 2000 min.	μf

Electron Gun. Type Requiring No Ion-Trap Magnet

Optical:

Faceplate, Spherical. Filterglass

Light transmission (Approx.). 74%

Phosphor (For curves, see front of this Section). . P4—Sulfide Type, Aluminized

Mechanical:

Operating Position. Any

Weight (Approx.). 24 lbs

Overall Length. 18" ± 3/8"

Neck Length. 5-1/2" ± 3/16"

Projected Area of Screen. 262 sq. in.

External Conductive Coating:

Type. Special

Contact area for grounding. Near Reference Line

For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines* and *Bulb J171 D/E* sheets at the front of this section

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

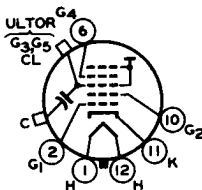
Bases (Alternates):

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



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Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR VOLTAGE	22000 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value.	1000 max.	volts
Negative value.	500 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
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 voltage of	16000	volts
and grid-No.2 voltage of	300	volts
Grid-No.4 Voltage for focus	0 to 450	volts
Grid-No.1 Voltage for visual		
extinction of focused raster.	-28 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

