

# 21AVP4C

## Picture Tube

**RECTANGULAR GLASS TYPE  
LOW-VOLTAGE ELECTROSTATIC FOCUS**

**ALUMINIZED SCREEN  
72° MAGNETIC DEFLECTION**

### Electrical:

Heater Current at 6.3 volts. . . . .	600	ma
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes. . . . .	6	pf
Cathode to all other electrodes. . . . .	5	pf
External conductive coating to anode . . . . .	}2500 max. pf 2000 min. pf	
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. . . . .	23-1/32" ± 3/8"
Neck Length . . . . .	7-1/2" ± 3/16"
Projected Area of Screen. . . . .	262 sq. in.

#### External Conductive Coating:

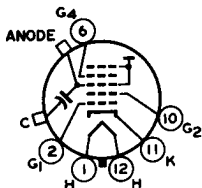
Type. . . . .	Special
Contact area for grounding. . . . .	Near Reference Line

#### For Additional Information on Coatings and Dimensions:

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

Cap . . . . .	Recessed Small Cavity (JEDEC No. J1-21)
Base . . . . .	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 - Anode (Grid No.3, Grid No.5, Collector)
- C - External Conductive Coating



# 21AVP4C

## Maximum Ratings, Design-Maximum Values:

Anode Voltage. . . . .	22000 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 peak value. . . . .	220 max.	volts
Negative bias value. . . . .	155 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 anode voltage of	18000	volts
and grid-No.2 voltage of	300	volts
Grid-No.4 Voltage for focus . . . . .	-72 to +396	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
--	----------	---------

For X-radiation shielding considerations, see sheet  
*X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES*  
at front of this section

