

21AWP4A

Picture Tube

NO ION-TRAP MAGNET REQUIRED

**RECTANGULAR GLASS TYPE
MAGNETIC FOCUS**

**ALUMINIZED SCREEN
72° MAGNETIC DEFLECTION**

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes.	5	pf
Grid No.1 to all other electrodes.	6	pf
External conductive coating to anode.	$\left\{ \begin{array}{l} 2500 \text{ max.} \\ 2000 \text{ min.} \end{array} \right.$	$\left. \begin{array}{l} \text{pf} \\ \text{pf} \end{array} \right.$
Heater Current at 6.3 volts.		600 \pm 30
Heater Warm-up time (Average).	11	seconds
Electron Gun	Type Requiring No Ion-Trap Magnet	

Optical:

Phosphor (For curves, see front of this section).	P4—Sulfide Type, Aluminized
Faceplate, Spherical	Filterglass
Light transmission (Approx.)	74%
Surface of Protective Window	Treated to reduce specular reflection

Mechanical:

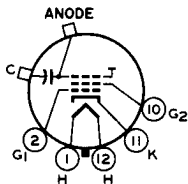
Weight (Approx.)	24 lbs
Overall Length	23.031" \pm .375"
Neck Length.	7.500" \pm .188"
Projected Area of Screen	262 sq.in.

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 J171 B/F* sheets
 at front of this section

Cap. Recessed Small Cavity (JEDEC No. J1-21)
 Base Small-Shell Duodecal 5-Pin (JEDEC Group 4, No. 85-57)
 Basing Designation for BOTTOM VIEW. 12N

- Pin 1—Heater
- Pin 2—Grid-No.1
- Pin 10—Grid No.2
- Pin 11—Cathode
- Pin 12—Heater
- Cap—Anode (Grid No.3,
Screen,
Collector)
- C—External
Conductive Coating



Maximum and Minimum Ratings, Design-Maximum Values:

*Unless otherwise specified, voltage values
are positive with respect to cathode*

Anode Voltage.	20000 max.	volts
Grid-No.2 Voltage.	550 max.	volts



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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
	200 max.	volts
After equipment warm-up period		
Heater positive with respect to cathode:		
Combined AC and DC voltage		
	200 max.	volts
DC component		
	100 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

Unless otherwise specified, voltage values are positive with respect to grid No. 1

Anode Voltage.	18000	volts
Grid-No.2 Voltage.	400	volts
Cathode Voltage for visual extinction of focused raster.	36 to 78	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

