

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.	2500 max.	pf
	2000 min.	pf

Heater Current at 6.3 volts. 600 ± 30 ma

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" ± .375"

Neck Length. 7.500" ± .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

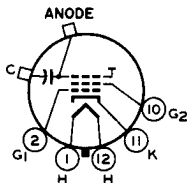
Pin 10—Grid No.2

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



21AWP4A

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:

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

For X-radiation shielding considerations, see sheet

X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section

