

Picture Tube

RECTANGULAR GLASS TYPE
MAGNETIC FOCUS

ALUMINIZED SCREEN
70° 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. .	{ 750 max.	pf
	{ 500 min.	pf

Heater Current at 6.3 volts

600 ± 60

ma

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.). 75%

Mechanical:

Weight (Approx.). 24 lbs

Overall Length. 23-1/32" ± 3/8"

Neck Length 7-1/2" ± 3/16"

Projected Area of Screen. 248 sq. in.

External Conductive Coating:

Type. Regular-Band

Contact area for grounding. Near Reference Line

For Additional Information on Coatings and Dimensions:

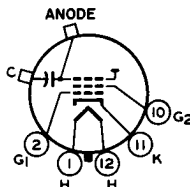
See *Picture-Tube Dimensional-Outlines and Bulb J170 B/D* sheets
at front of this section

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

Base. Small-Shell Duodecal 5-Pin (JEDEC Group 4, No.
B5-57)

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



21ZP4C

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
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After equipment warm-up period. . . .	200 max.	volts
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Heater positive with
respect to cathode:

Combined AC and DC voltage.	200 max.	volts
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DC component.	100 max.	volts
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Typical Operating Conditions for Grid-Drive Service:

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

Anode Voltage	16000	volts
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Grid-No.2 Voltage	300	volts
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Grid-No.1 Voltage for visual extinction of focused raster.	-28 to -72	volts
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Maximum Circuit Value:

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

