

Picture Tube

MAGNETIC FOCUS **NO ION-TRAP MAGNET REQUIRED** **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.	$\begin{cases} 750 \text{ max} \\ 500 \text{ min} \end{cases}$	$\begin{cases} \text{pF} \\ \text{pF} \end{cases}$

Heater Current at 6.3 V. 600 $\pm$ 30 mA

Electron Gun Type Requiring No Ion-Trap Magnet

OPTICAL

Phosphor P4—Sulfide Type, Aluminized

For curves, see front of this section

Faceplate. Filterglass

Light Transmission (Approx.) 73%

MECHANICAL

Weight (Approx.) 24 lb

Overall Length 22.438 $\pm$ 0.375 in

Neck Length. 7.500 $\pm$ 0.188 in

Projected Area of Screen 224 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 J165 Z* 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

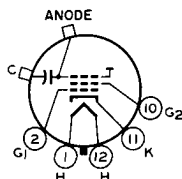
Cap—Anode (Grid No.3,

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 V

Grid-No.2 Voltage. 550 max V

Grid-No.1 Voltage

Negative peak value. 220 max V

Negative bias value. 155 max V

Positive bias value. 0 max V

Positive peak value. 2 max V



21WP4B

Heater Voltage	{ 6.9 max 5.7 min	V V
Peak Heater-Cathode Voltage		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds.	450 max	V
After equipment warm-up period	200 max	V
Heater positive with respect to cathode:		
Combined AC and DC voltage	200 max	V
DC Component	100 max	V

TYPICAL OPERATING CONDITIONS FOR GRID-DRIVE SERVICE

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

Anode Voltage.	16000	V
Grid-No. 2 Voltage.	300	V
Grid-No. 1 Voltage.	-28 to -72	V
For visual extinction of focused raster		

MAXIMUM CIRCUIT VALUE

Grid-No. 1-Circuit Resistance	1.5 max	MΩ
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For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this section