

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. . .	{ 1500 max. 500 min.	pf
Heater Current at 6.3 volts		600 ± 30
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:

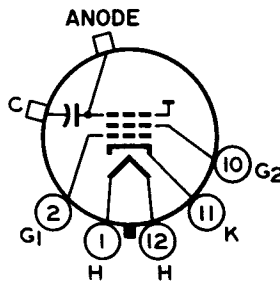
Weight (Approx.).	30 lbs
Overall Length.	21-3/4" ± 3/8"
Neck Length	7-1/2" ± 3/16"
Projected Area of Screen.	215 sq. in.
External Conductive Coating:	

Type. Regular-Band
Contact area for grounding. Near Reference Line
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J161 C/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	450 max.	volts
Grid-No.1 Voltage:		
Negative bias value	140 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts



20DP4D

Heater Voltage.	{ 6.9 max. 5.7 min.	volts 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 Grid-Drive Service:

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

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

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

