

Picture Tube

NO ION-TRAP MAGNET REQUIRED

**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.	pf
	{ 750 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.).	74%

Mechanical:

Weight (Approx.).	18 lbs
Overall Length.	19-3/16" ± 3/8"
Neck Length	7-1/2" ± 3/16"
Projected Area of Screen.	149 sq. in.

External Conductive Coating:

Type.	Regular-Band
Contact area for grounding.	Near Reference Line

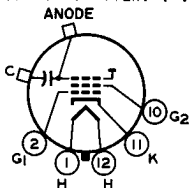
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J133B/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



17BP4D

Maximum and Minimum Ratings, Design-Maximum Values:

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

Anode Voltage	17500 max.	volts
Grid-No.2 Voltage	550 max.	volts
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.	165 max.	volts
Heater positive with respect to cathode:		
Combined AC and DC voltage.	165 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	12000	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

