

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. 750 min.	{ pf 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:

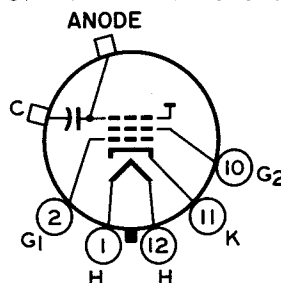
See *Picture-Tube Dimensional-Outlines and Bulb J133B/D* sheets
at front of this section

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. 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

