

Picture Tube

**RECTANGULAR GLASS TYPE
MAGNETIC FOCUS**

**ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION**

Electrical:

Heater Current at 6.3 volts.	600	ma
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes.	6	pf
Cathode to all other electrodes.	5	pf
External conductive coating to anode	{	2500 max. pf
		2000 min. pf
Electron Gun	Type	Requiring No Ion-Trap Magnet

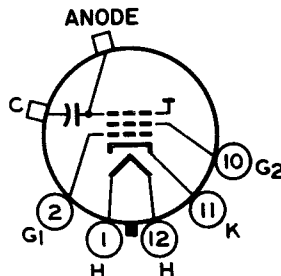
Optical:

Faceplate, Spherical	Filterglass
Light transmission (Approx.)	74%
Phosphor (For curves, see front of this section)	P4-Sulfide Type, Aluminized

Mechanical:

Operating Position	Any
Weight (Approx.)	24 lbs
Overall Length	20" $\pm$ 3/8"
Neck Length.	7-1/2" $\pm$ 3/16"
Projected Area of Screen	262 sq. in.
External Conductive Coating:	
Type	Regular-Band
Contact area for grounding	Near Reference Line
For Additional Information on Coatings, Dimensions, and Deflection Angles:	
See <i>Picture-Tube Dimensional-Outlines</i> and <i>Bulb J171 D/E</i> sheets at the 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,
Collector)
C-External
Conductive
Coating

Maximum Ratings, Design-Maximum Values:

Anode Voltage	20000 max.	volts
Grid-No.2 Voltage	550 max.	volts



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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	
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			
	200 max.	volts	

Typical Operating Conditions:

<i>With anode voltage of</i>	<i>16000</i>	<i>volts</i>	
<i>and grid-No.2 voltage of</i>	<i>300</i>	<i>volts</i>	
Grid-No.1 Voltage for visual extinction of focused raster			
	-28 to -72	volts	

Maximum Circuit Values:

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