

Picture Tube

RECTANGULAR GLASS TYPE
MAGNETIC FOCUS

ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION

GENERAL DATA

Electrical:

Heater Current at 6.3 volts	600	ma
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes	6	$\mu\mu\text{f}$
Cathode to all other electrodes	5	$\mu\mu\text{f}$
External conductive coating to ultor.	{ 2500 max. 2000 min.	$\mu\mu\text{f}$
Electron Gun.		Ion-Trap Type Requiring External Single-Field Magnet

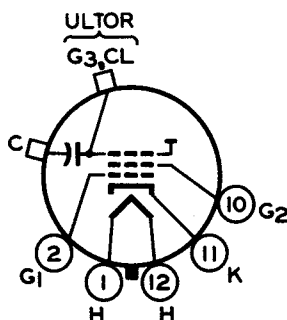
Optical:

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 and Dimensions:	
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—Ultor
(Grid No.3,
Collector)
C—External
Conductive
Coating



21AMP4A

Maximum Ratings, Design-Maximum Values:

ULTOR VOLTAGE	20000 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
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 ultor voltage of</i>	16000	volts.
<i>and grid-No.2 voltage of</i>	300	volts.
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