



21CQP4

PICTURE TUBE

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RECTANGULAR GLASS TYPE ALUMINIZED SCREEN
LOW-VOLTAGE ELECTROSTATIC FOCUS MAGNETIC DEFLECTION

With heater having controlled warm-up time

DATA

General:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.6 ± 5%	amp
Warm-up time (Average)	11	sec

Capacitance between External Conductive Coating and Ultor	{ 2500 max. μ f 2000 min. μ f
Faceplate, Spherical	

Phosphor (For curves, see front of this section). .P4—Sulfide Type
Aluminized

Deflection Angles (Approx.):

Diagonal	110°
Horizontal	105°
Vertical	87°

Electron Gun Type Requiring No Ion-Trap Magnet

Tube Dimensions:

Overall length	14-7/16" ± 3/8"
Greatest width	20-1/4" ± 1/8"
Greatest height	16-3/8" ± 1/8"
Diagonal	21-3/8" ± 1/8"
Neck length	5-3/16" ± 3/16"
Radius of curvature of faceplate (External surface)	28-1/2"

Screen Dimensions (Minimum):

Greatest width	19-1/16"
Greatest height	15-1/16"
Diagonal	20-1/4"
Projected area	262 sq. in.

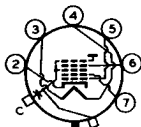
Operating Position Any

Cap Recessed Small Cavity (JEDEC No. J1-21)

Base Special (JEDEC No. B6-185)

Basing Designation for BOTTOM VIEW 7FA

- Pin 2 - Cathode
- Pin 3 - Heater
- Pin 4 - Heater
- Pin 5 - Grid No.1
- Pin 6 - Grid No.4
- Pin 7 - Grid No.2



- Cap - Ultor
(Grid No.3,
Grid No.5,
Collector)
- C - External
Conductive
Coating

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE	18000 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value	1000 max.	volts
Negative value	500 max.	volts
GRID-No.2 VOLTAGE	500 max.	volts

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GRID-No.1 VOLTAGE:

Negative-peak value.	200 max.	volts
Negative-bias value.	140 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		
	410 max.	volts
After equipment warm-up period		
	180 max.	volts
Heater positive with respect to cathode		
	180 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	1.5 max.	megohms
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*For X-ray shielding considerations, see sheet
X-RAY PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section*