



21CQP4 PICTURE TUBE

21CQP4

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 $0.6 \pm 5\%$ amp

Warm-up time (Average) 11 sec

Capacitance between External Conductive

Coating and Ultor $\begin{cases} 2500 \text{ max. } \mu\text{f} \\ 2000 \text{ min. } \mu\text{f} \end{cases}$

Faceplate, Spherical Filterglass

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 $14-7/16" \pm 3/8"$

Greatest width $20-1/4" \pm 1/8"$

Greatest height $16-3/8" \pm 1/8"$

Diagonal $21-3/8" \pm 1/8"$

Neck length $5-3/16" \pm 3/16"$

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.86-185)

Basing Designation for BOTTOM VIEW 7FA

Pin 2—Cathode

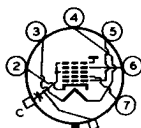
Pin 3—Heater

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*