



# 2ICQP4 PICTURE TUBE

2ICQP4

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.<br>2000 min. | { $\mu\text{f}$<br>$\mu\text{f}$ |
|---------------------------------------------------------------------|--------------------------|----------------------------------|

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" ± 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. |

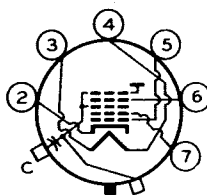
Operating Position . . . . . Any

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 |

21CQP4



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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

*For X-ray shielding considerations, see sheet  
X-RAY PRECAUTIONS FOR CATHODE-RAY TUBES  
at front of this Section*