



# 17DAP4 PICTURE TUBE

17DAP4

SHORT 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) . . . . . 2.68  $\pm$  10% volts  
Current at 2.68 volts . . . . . 0.45 amp  
Warm-up time (Average) . . . . . 11 sec

Capacitance between External Conductive  
Coating and Ultor . . . . .  $\left\{ \begin{array}{l} 1400 \text{ max. } \mu\mu\text{f} \\ 900 \text{ min. } \mu\mu\text{f} \end{array} \right.$

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 . . . . . 10-11/16"  $\pm$  3/16"  
Greatest width . . . . . 15-5/8"  $\pm$  1/8"  
Greatest height . . . . . 12-3/4"  $\pm$  1/8"  
Diagonal . . . . . 16-9/16"  $\pm$  1/8"  
Neck length . . . . . 3-9/16"  $\pm$  1/16"  
Radius of curvature of faceplate (External  
surface) . . . . . 20-3/4"

Screen Dimensions (Minimum):

Greatest width . . . . . 14-3/4"  
Greatest height . . . . . 11-11/16"  
Diagonal . . . . . 15-3/4"  
Projected area . . . . . 155 sq. in.

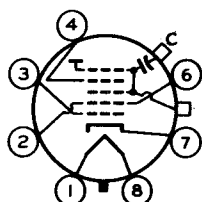
Operating Position . . . . . Any

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

Base . . . . . Small-Button Neeeightar 7-Pin,  
Arrangement 1 (JEDEC No. B7-208)

Basing Designation for BOTTOM VIEW . . . . . 8JK

Pin 1—Heater  
Pin 2—Grid No. 2  
Pin 3—Grid No. 1  
Pin 4—Grid No. 4  
Pin 6—Grid No. 2  
Pin 7—Cathode  
Pin 8—Heater



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

### Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE . . . . . 16000 max. volts

GRID-No. 4 (FOCUSING) VOLTAGE:

Positive value . . . . . 850 max. volts  
Negative value . . . . . 630 max. volts

GRID-No. 2 VOLTAGE . . . . . 500 max. volts

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## GRID-No.1 VOLTAGE:

|                               |          |       |
|-------------------------------|----------|-------|
| Negative-peak value . . . . . | 360 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*