



27EP4

PICTURE TUBE

RECTANGULAR GLASS TYPE
MAGNETIC FOCUSALUMINIZED SCREEN
MAGNETIC DEFLECTION

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DATA

General:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 volts

Current $0.6 \pm 10\%$ amp

Faceplate, Spherical. Filterglass

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

Deflection Angles (Approx.):

Diagonal. 90° Horizontal. 85° Vertical. 69° Electron Gun. Ion-Trap Type Requiring
External Single-Field Magnet

Tube Dimensions:

Overall length. $23\text{--}1\frac{1}{16}" \pm \frac{3}{8}"$ Greatest width. $25\text{--}9\frac{3}{32}" \pm \frac{3}{16}"$ Greatest height $20\text{--}7\frac{3}{32}" \pm \frac{3}{16}"$ Diagonal. $26\text{--}13\frac{1}{16}" \pm \frac{3}{16}"$ Neck length $7\text{--}1\frac{1}{2}" \pm \frac{3}{16}"$ Radius of curvature of faceplate
(External surface). 40"

Screen Dimensions (Minimum):

Greatest width. $24\text{--}1\frac{1}{4}"$ Greatest height $18\text{--}5\frac{1}{8}"$ Diagonal. $25\text{--}3\frac{1}{4}"$

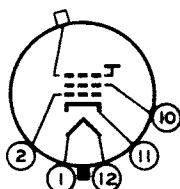
Projected area. 425 sq. in.

Operating Position. Any

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. 12D

Pin 1—Heater
Pin 2—Grid No.1
Pin 10—Grid No.2
Pin 11—CathodePin 12—Heater
Cap—Ultror
(Grid No.3,
Collector)

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE 20000 max. volts

GRID-No.2 VOLTAGE 500 max. volts

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

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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*