



27MP4

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PICTURE TUBE

RECTANGULAR METAL-SHELL TYPE
MAGNETIC FOCUSALUMINIZED SCREEN
MAGNETIC DEFLECTION

DATA

General:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. $0.6 \pm 10\%$ amp ←

Faceplate, Compound Spherical. Frosted 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:

Maximum overall length $22\text{--}3\frac{1}{16}"$ Greatest width at lip. $25\text{--}1\frac{1}{4}" \pm \frac{3}{16}"$ Greatest height at lip $19\text{--}15\frac{1}{16}" \pm \frac{3}{16}"$ Diagonal at lip. $26\text{--}7\frac{7}{8}" \pm \frac{1}{4}"$ Neck length. $7\text{--}1\frac{1}{2}" \pm \frac{3}{16}"$

Radius of curvature of faceplate (External surface). . . . ♦

Screen Dimensions (Minimum):

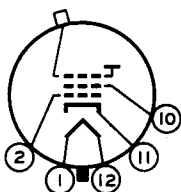
Greatest width $23\text{--}7\frac{7}{16}"$ Greatest height. $18\text{--}1\frac{1}{8}"$ Diagonal $25\text{--}1\frac{1}{16}"$

Operating Position Any

Ultor Terminal Metal-Shell Lip

Base . . Small-Shell Duodecal 5-Pin (JETEC 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—Cathode
Pin 12—HeaterMetal-Shell Lip —
Ultor
(Grid No.3,
Collector)

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE. 18000 max. volts

GRID-No.2 VOLTAGE. 500 max. volts

GRID-No.1 VOLTAGE:

Negative-bias value. 125 max. volts

Positive-bias value. 0 max. volts

Positive-peak value. 2 max. volts

♦: See next page.

← Indicates a change.

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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

♦ Within major area, the radius of curvature is 40". The curvature of the surface at the boundary of this area blends into the rim and has a perimetrical shape conforming to the surface of a sphere having a 50" radius.

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