



21AWP4

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PICTURE TUBE

RECTANGULAR GLASS 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

Capacitance between External Conduc-

tive Coating and Ultor { 2500 max. μf ←2000 min. μf ←

Faceplate, Spherical Filterglass

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

Deflection Angles (Approx.):

Diagonal 72° Horizontal 67° Vertical 53° Electron Gun Ion-Trap Type Requiring
External Single-Field Magnet

Tube Dimensions:

Overall length $23\text{--}1\frac{3}{32}" \pm \frac{3}{8}"$ Greatest width $20\text{--}1\frac{1}{4}" \pm \frac{1}{8}"$ Greatest height. $16\text{--}3\frac{3}{8}" \pm \frac{1}{8}"$ Diagonal $21\text{--}3\frac{3}{8}" \pm \frac{1}{8}"$ Neck length. $7\text{--}1\frac{1}{2}" \pm \frac{3}{16}"$ Radius of curvature of faceplate (External surface). . $33"$

Screen Dimensions (Minimum):

Greatest width $19\text{--}1\frac{1}{16}"$ ←Greatest height. $15\text{--}1\frac{1}{16}"$ ←Diagonal $20\text{--}1\frac{1}{4}"$ ←

Projected area 262 sq. in. ←

Operating Position Any

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

Base . . Small-Shell Duodecal 5-Pin (JETEC Group 4, No. B5-57) ←

Basing Designation for BOTTOM VIEW 12N

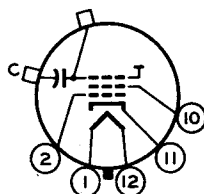
Pin 1—Heater

Pin 2—Grid No.1

Pin 10—Grid No.2

Pin 11—Cathode

Pin 12—Heater



Cap—Ultor

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

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE. 18000 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

← 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

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