



21AP4

21AP4 PICTURE TUBE

RECTANGULAR METAL-SHELL TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

DATA

General:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. $0.6 \pm 10\%$ amp

Faceplate, Spherical Frosted Filterglass

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

Deflection Angles (Approx.):

Diagonal 70° Horizontal 66° Vertical 50°

Electron Gun Ion-Trap Type Requiring

External Single-Field Magnet

Tube Dimensions:

Maximum overall length 22-5/8" ←

Greatest width at lip. $19-23/32" \pm 1/8"$ Greatest height at lip $15-5/16" \pm 1/8"$ Diagonal at lip. $20-3/4" \pm 1/4"$ Neck length. $7-1/2" \pm 3/16"$ ←

Radius of curvature of faceplate (External surface). . 33" ←

Screen Dimensions (Minimum):

Greatest width $18-1/8"$ ←Greatest height. $13-11/16"$ Diagonal $19-1/8"$

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 ←

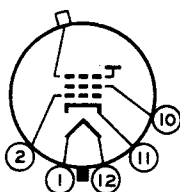
Pin 1 - Heater

Pin 2 - Grid No.1

Pin 10 - Grid No.2

Pin 11 - Cathode

Pin 12 - Heater



Metal-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

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

← Indicates a change.

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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*