



21EP4-A, 21EP4-B PICTURE TUBES

RECTANGULAR GLASS TYPES

MAGNETIC FOCUS

MAGNETIC DEFLECTION

21EP4-A
21EP4-B

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 $\left\{ \begin{array}{l} 750 \text{ max.} \\ 500 \text{ min.} \end{array} \right. \mu\mu\text{f}$

Faceplate, Cylindrical Filterglass

Phosphor (For Curves,
see front of this
section).

Type 21EP4-A

Type 21EP4-B

P4—Sulfide Type

P4—Sulfide Type
Aluminized

Deflection Angles (Approx.):

Diagonal 70°

Horizontal 65°

Vertical 50°

Electron Gun Ion-Trap Type Requiring
External Single-Field Magnet

Tube Dimensions:

Overall length $23" \pm 3/8"$

Greatest width $20-1/4" \pm 1/8"$

Greatest height. $15-9/16" \pm 1/8"$

Diagonal $21-7/32" \pm 1/8"$

Neck length. $7-15/32" \pm 3/16"$

Radius of curvature of faceplate

(External horizontal surface). 35"

Screen Dimensions (Minimum):

Greatest width $19-1/8"$

Greatest height. $13-7/8"$

Diagonal $20-1/16"$

Projected area 238 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

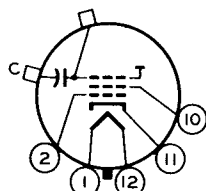
Pin 1—Heater

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

← Indicates a change.

21EP4-A
21EP4-B



21EP4-A, 21EP4-B

PICTURE TUBES

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

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*