



21YP4
21YP4-A

21YP4, 21YP4-A PICTURE TUBES

RECTANGULAR GLASS TYPES

LOW-VOLTAGE ELECTROSTATIC FOCUS

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

Faceplate, Spherical Filterglass

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

Type 21YP4
P4—Sulfide Type

Type 21YP4-A
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 $23-1/32" \pm 3/8"$

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. $7-1/2" \pm 3/16"$

Radius of curvature of faceplate (External surface). $40"$

Screen Dimensions (Minimum):

Greatest width $19-1/16"$

Greatest height $14-3/16"$

Diagonal $20"$

Projected area 248 sq. in.

Operating Position Any

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

Base . . Small-Shell Duodecal 6-Pin (JETEC Group 4, No. B6-63)

Basing Designation for BOTTOM VIEW 12L

Pin 1—Heater

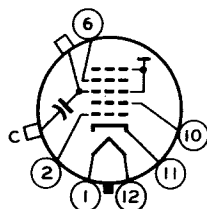
Pin 2—Grid No.1

Pin 6—Grid No.4

Pin 10—Grid No.2

Pin 11—Cathode

Pin 12—Heater



Cap—Ultor

(Grid No.3,
Grid No.5,
Collector)

C—External
Conductive
Coating

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE. 18000 max. volts

GRID-No.4 (FOCUSING) VOLTAGE:

Positive value 1000 max. volts

Negative value 500 max. volts

← Indicates a change.

2IYP4
2IYP4-A



2IYP4, 2IYP4-A

PICTURE TUBES

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
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*

→ Indicates a change.