



16LP4-A KINESCOPE

ROUND GLASS TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

DATA

General:

Heater, for Unipotential Cathode:

Voltage. 6.3' ac or dc volts

Current. 0.6 amp

Direct Interelectrode Capacitances:

Grid No.1 to All Other Electrodes. 6 μf

Cathode to All Other Electrodes. 5 μf

External Conductive Coating to Anode. $\left\{ \begin{array}{l} 2000 \text{ max.} \\ 750 \text{ min.} \end{array} \right. \mu\text{f}$

Faceplate, Spherical Filterglass

Light Transmission (Approx.) 66%

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

Fluorescence and Phosphorescence White

Persistence of Phosphorescence Short

Focusing Method. Magnetic

Deflection Method Magnetic

Deflection Angle (Approx.) 52°

Ion-Trap Gun Requires External Double-Field Magnet

Overall Length $22\text{-}1/4" \pm 3/8"$

Greatest Diameter of Bulb. $15\text{-}7/8" \pm 1/8"$

Minimum Screen Diameter. $14\text{-}1/2"$

Mounting Position. Any

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

Base Small-Shell Duodecal 5-Pin (JETEC No. B5-57)

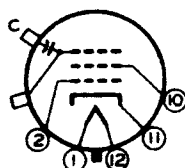
BOTTOM VIEW

Pin 1 - Heater

Pin 2 - Grid No.1

Pin 10 - Grid No.2

Pin 11 - Cathode



Pin 12 - Heater

Cap - Anode

C - External
Conduct.
Coating

Maximum Ratings, Design-Center Values:

ANODE VOLTAGE 14000 max. volts

GRID-No.2 VOLTAGE. 410 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. 125 max. volts

Heater positive with respect to cathode 125 max. volts

Typical Operation:

Anode Voltage 12000 volts

FEB. 1, 1952

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

16LP4-A



16LP4-A KINESCOPE

Grid-No.2 Voltage.	300	volts
Grid-No.1 Voltage ^o	-33 to -77	volts
Focusing-Coil Current (DC, Approx.) [▲]	110	ma
Ion-Trap-Magnet Current (DC, Approx.) [#]	120	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1.5 max. megohms

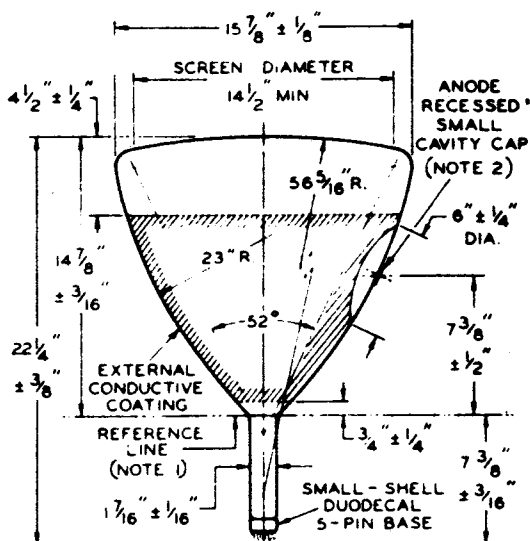
^o For visual extinction of undeflected focused spot.

[▲] For specimen focusing coil similar to JETEC Focusing Coil No.106 positioned with air gap toward kinescope screen, and center line of air gap about 3-1/4" inches from Reference Line (see Outline Drawing). The indicated current is for the condition with the combined grid-No.1 bias voltage and video-signal voltage adjusted to produce a high-light brightness of 20 foot-lamberts on a 14-1/2" x 10-1/4" picture area sharply focused at center of screen.

[#] For specimen ion-trap magnet similar to JETEC Ion-Trap Magnet No.108 located in optimum position and rotated to give maximum brightness.

OPERATING NOTES

X-Ray Warning. When operated at or below the maximum anode-voltage rating shown in the tabulated data, the 16LP4-A does not produce any harmful x-ray radiation. All types of picture tubes may be operated at voltages (if ratings permit) up to 16 kilovolts (absolute value) without personal injury on prolonged exposure at close range. Above 16 kilovolts, special shielding precautions for x-ray radiation may be necessary.



NOTE 1: REFERENCE LINE IS DETERMINED BY POSITION WHERE REFERENCE-LINE GAUGE (JETEC No.112) 1.500" + 0.003" - 0.000" I.D. AND 2" LONG WILL REST ON BULB CONE.

NOTE 2: THE PLANE THROUGH THE TUBE AXIS AND VACANT PIN POSITION NO.3 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF ±10°. ANODE TERMINAL IS ON SAME SIDE AS VACANT PIN POSITION NO.3.

FEB. 1, 1952

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA



I6LP4-A PICTURE TUBE

ROUND GLASS TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

I6LP4-A

DATA

General:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. $0.6 \pm 10\%$ amp

Capacitance between External Conductive Coating and Ultor $\begin{cases} 2000 \text{ max.} \\ 750 \text{ min.} \end{cases} \begin{matrix} \mu\text{mf} \\ \mu\text{mf} \end{matrix}$

Faceplate, Spherical Filterglass

Phosphor (For curves, see front of this section) . P4—Sulfide Type

Deflection Angle (Approx.) 52°

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

Overall Length $22\text{-}1/4" \pm 3/8"$

Greatest Diameter of Bulb. $15\text{-}7/8" \pm 1/8"$

Minimum Useful Screen Diameter $14\text{-}1/2"$

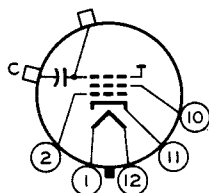
Operating Position Any

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. 14000 max. volts

GRID-No.2 VOLTAGE. 410 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 125 max. volts

Heater positive with respect to cathode. 125 max. volts

Maximum Circuit Values:

Grid-No.1—Circuit Resistance 1.5 max. megohms

▲ Cap may be aligned with either vacant pin position 6 or vacant pin position 3.

← Indicates a change.