

KINESCOPE

RECTANGULAR GLASS TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

DATA
General:
Heater, for Unipotential Cathode: Voltage
Face Plate (With about 66% light transmission) Filterglass Phosphor (For Curves, see front of this Section) P4—Sulfide Type Fluorescence and Phosphorescence White Persistence of Phosphorescence
Pin 1-Heater Pin 2-Grid No.1 Pin 10-Grid No.2 Pin 11-Cathode Pin 12-Heater Cap - Anode C-External Conductive Coating
Maximum Ratings, Design-Center Values:
ANODE VOLTAGE
Negative bias value
During equipment warm—up period not exceeding 15 seconds . 410 max. volt After equipment warm—up period 150 max. volt Heater positive with respect to cathode 150 max. volt





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Typical Operation:		1
Anode Voltage*	12000	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 Voltage for Visual		_
Extinction of Undeflected Focused Spot.	<i>3</i> 3 to −77	volts
Focusing-Coil Current (DC, approx.) •	92	ma
Field Strength of Single-Field		
Ion-Trap Magnet (Approx.)#	35	gausses
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance	1.5 max.	megohms

* Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than 10000 volts.

Measured at center of field with General Electric Gauss Meter, Cat.
No.409X51.

OPERATING NOTES

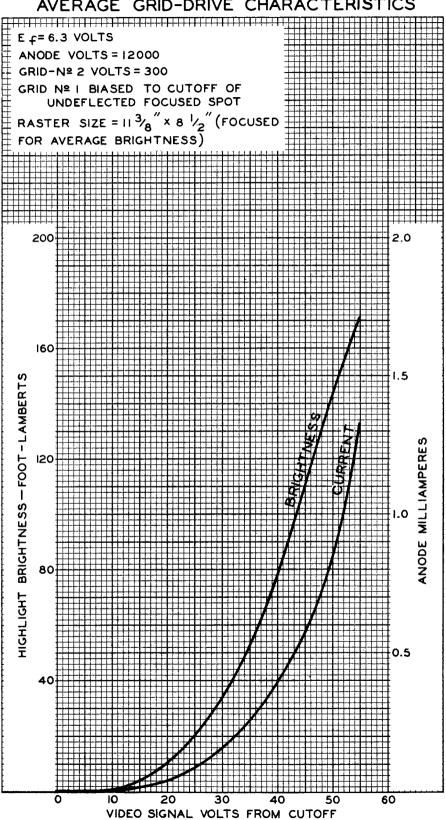
X-Ray Warning. When operated at or below the maximum ratings shown in the tabulated data, the I4CP4 does not produce any harmful x-ray radiation. All types of picture tubes may be operated at voltages (if ratings permit) up to 16 kilovolts (absolute value) without personal injury on prolonged exposure at close range. Above 16 kilovolts, special shielding precautions for x-ray radiation may be necessary.

Direction of the field of the ion-trap magnet should be such that the north pole is adjacent to vacant pin position No.8 and the south pole to pin No.2.

For specimen focusing coil similar to JETEC Focusing Coil No.109 positioned with airgap toward kinescope screen and center line of air gap 3 inches from Reference Line (see Outline Drawing). The indicated current is for condition with combined grid-No.1 bias voltage and video-signal voltage adjusted to produce a highlight brightness of 35 foot-lamberts on an 11-3/8" x 8-1/2" picture area sharply focused at center of screen.

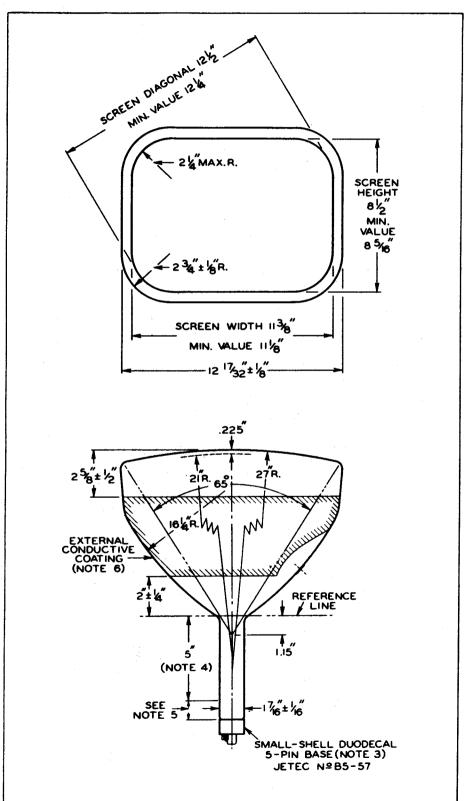


AVERAGE GRID-DRIVE CHARACTERISTICS



ACPA



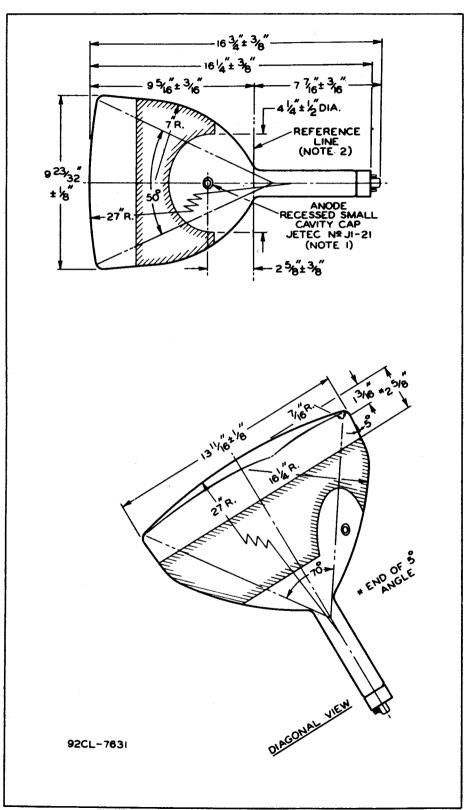


AUG. 1, 1951





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- NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND VACANT PIN POSITION No.6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE TERMINAL BY ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF ± 30°. ANODE TERMINAL IS ON SAME SIDE AS VACANT PIN POSITION No.6.
- NOTE 2: WITH TUBE NECK INSERTED THROUGH FLARED END OF REFERENCE-LINE GAUGE JETEC No.110 (SHOWN AT FRONT OF THIS SECTION) AND WITH TUBE SEATED IN GAUGE, THE REFERENCE LINE IS DETERMINED BY THE INTERSECTION OF THE PLANE CC'OF THE GAUGE WITH THE GLASS FUNNEL.
- NOTE 3: SOCKET FOR THIS BASE SHOULD NOT BE RIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN A CIRCLE CONCENTRIC WITH BULB AXIS AND HAVING A DIAMETER OF 2-1/2".
- NOTE 4: LOCATION OF DEFLECTING YOKE AND FOCUSING DEVICE MUST BE WITHIN THIS SPACE.
- NOTE 5: KEEP THIS SPACE CLEAR FOR SINGLE-FIELD, ION-TRAP MAGNET.
- NOTE 6: EXTERNAL CONDUCTIVE COATING MUST BE GROUNDED.