

KINESCOPE

RECTANGULAR GLASS TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

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DATA		
General:		
Current 0.6 Direct Interelectrode Capacitances: Grid No.1 to All Other Electrodes Cathode to All Other Electrodes	6 4	lts amp uuf uuf uuf
External Conductive Coating to Anode Face Plate (With about 66% light transmission) . Phosphor (For Curves, see front of this Section). Fluorescence and Phosphorescence Persistence of Phosphorescence Focusing Method	{ 750 min	μfsspeiiumicc 0000 t. 8"" /8" /8" /8" /8"
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	е
Maximum Ratings, Design-Center Values: ANODE VOLTAGE		lts lts
Negative bias value Positive bias value Positive peak value	0 max. vo	lts lts lts
During equipment warm—up period not exceeding 15 seconds After equipment warm—up period Heater positive with respect to cathode	180 max. vo	lts lts lts





Typical Operation:		
Anode Voltage*	12000	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 Voltage for Visual Extinction.		_
of Undeflected Focused Spot	–33to <i>–</i> 77	volts
Focusing-Coil Current (DC)	96 ± 6%	ma
Field Strength of Single-Field	4.5	
lon-Trap Magnet (Approx.)#	45	gausses
lon-Trap Magnet Current (DC,approx.)● .	70	ma
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance	1.5 max.	.megohms
* Brilliance and definition decrease with dec in general, the anode voltage should not be	reasing anode less than 1000	voltage.
 For specimen focusing coil similar to JETEC positioned with air gap toward kinescope scre 	en, and center	line of i
air gap 3 inches from Reference Line (see 0 indicated current is for condition with combined	Outline Drawin Larid-No.1 bia:	g). The l s voltage
and video—signal voltage adjusted to produce a of 30 foot—lamberts on a 11-1/8" x 8-5/16" pictuat center of screen.	a high—light bu	rightnešs

- # Measured at center of field with General Electric Gauss Meter, Cat. No.409X51.
- For specimen ion-trap magnet similar to JETEC ion-Trap Magnet No.111, located in optimum position and rotated to give maximum brightness.

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KINESCOPE

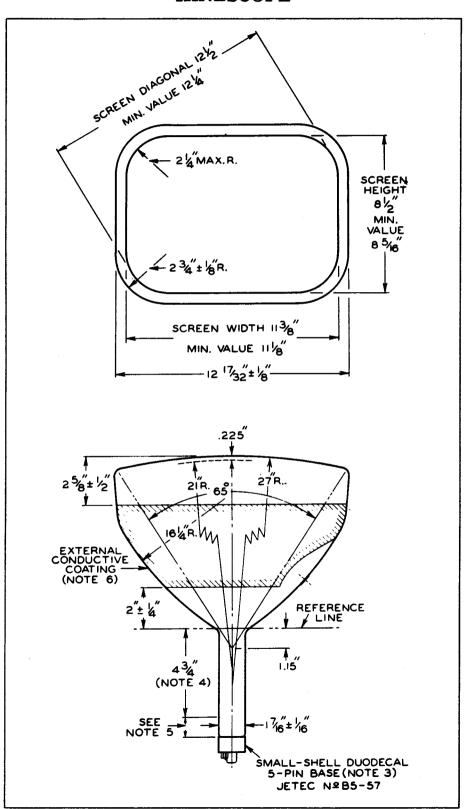
OPERATING NOTES

When operated at or below the maximum ratings shown in the tabulated data, the I4EP4 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.

AEPA

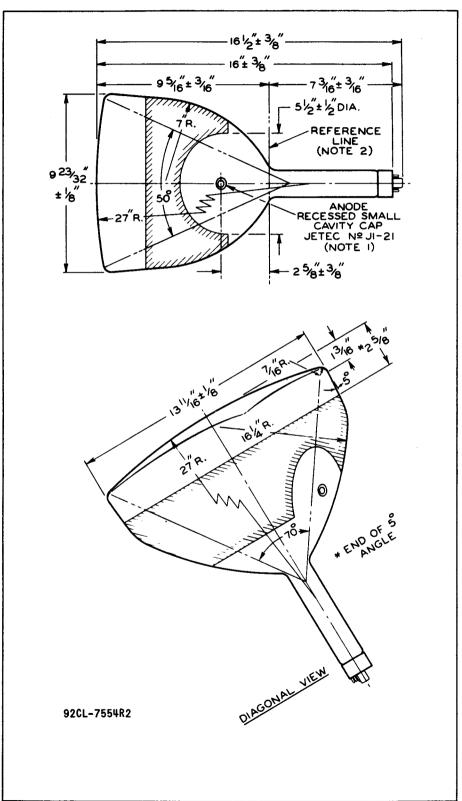




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NOTE I: THE PLANE THROUGH THE TUBE AXIS AND VACANT PIN POSITION No.6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE TERMINAL BY ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF \pm 30°. ANODE TERMINAL IS ON SAME SIDE AS VACANT PIN POSITION 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".

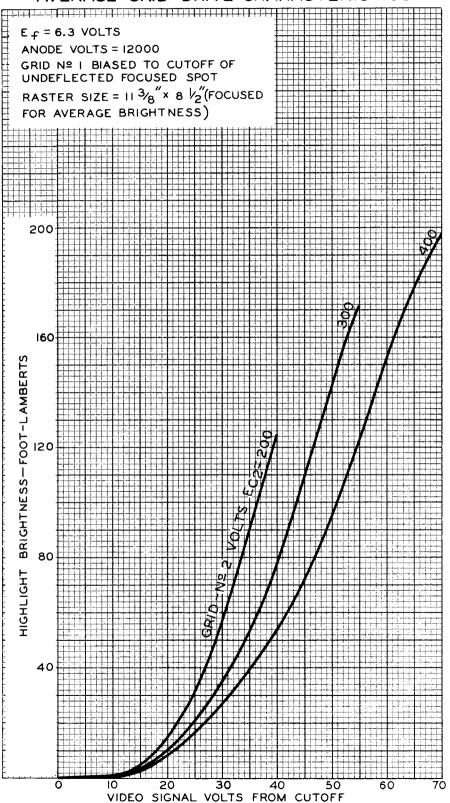
NOTE 4: LOCATION OF DEFLECTING YOKE AND FOCUSING DEVICE MUST BE WITHIN THIS SPACE.

NOTE 5: KEEP THIS SPACE CLEAR FOR SINGLE-FIELD, ION-TRAP MAGNET.

NOTE 6: EXTERNAL CONDUCTIVE COATING MUST BE GROUNDED.



AVERAGE GRID-DRIVE CHARACTERISTICS







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