

KINESCOPE

RECTANGULAR GLASS TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

DATA	
General:	
Direct Interelectrode Capacitances: Grid No.1 to All Other Electrodes 6 Cathode to All Other Electrodes 5 External Conductive Coating to Anode	amp µµf µµf µµf
Face Plate (With about 66% light transmission) Filtergl Phosphor (For Curves, see front of this Section) P4—Sulfide T Fluorescence and Phosphorescence	ype lite lort ctic 70° 65° net 16" 16" Any 21)
Pin 1-Heater Pin 2-Grid No.1 Pin 10-Grid No.2 Pin 11-Cathode Maximum Ratings, Design-Center Values: Pin 12-Heater Cap - Anode C-External Conductiv Coating	e
ANODE VOLTAGE	lts lts lts lts
After equipment warm-up period 150 max. vo	lts lts lts





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Typical Operation:			
Anode Voltage*	12000 300	14000 300	volts volts
Focused Spot	-33 to -77	− 33 to −77	volts
Focusing-Coil Current (DC, approx.) Field Strength of	100	108	ma
Single-Field Ion-Trap Magnet (Approx.)	45	50	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 12000 volts.

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 30 foot—lamberts on a 13-1/2" x 10-1/8" picture area sharply focused at center of screen.





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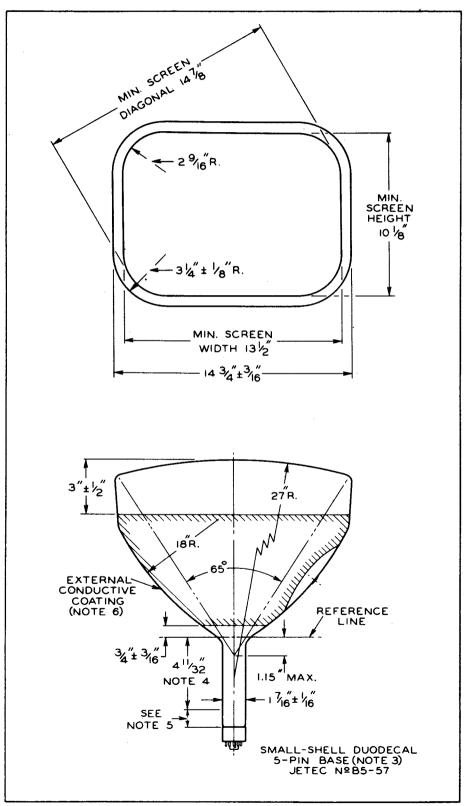
OPERATING NOTES

X-Ray Warning. When operated at or below the maximum ratings shown in the tabulated data, the I6TP4 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.

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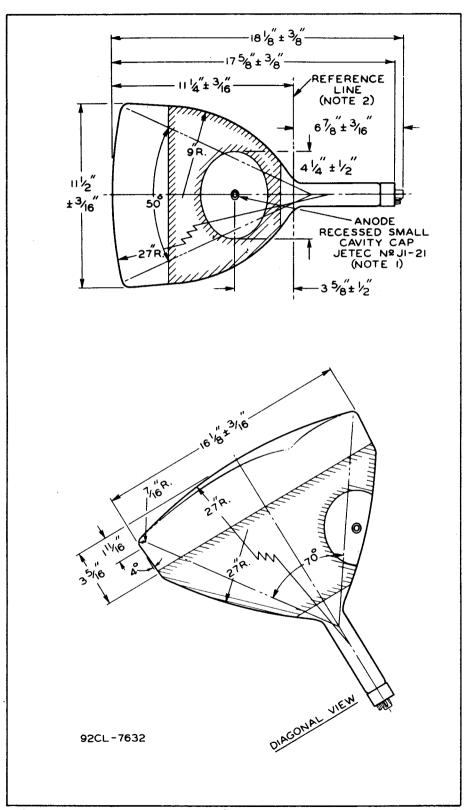


AUG. 1, 1951



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- NOTE 1: 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 ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF ± 30°. ANODE TERMINAL IS ON SAME SIDE AS VACANT PIN POSITION No.3.
- 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 BERIGIDLY 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 3".
- 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.



(C) PA

AVERAGE GRID-DRIVE CHARACTERISTICS

