

KINESCOPE

ROUND METAL-SHELL TYPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

GCA N.B

DATA	٦		
General:	-		
Heater, for Unipotential Cathode: Voltage	p ffs%eeetccot ""syp)		
Pin 1 - Heater Pin 2 - Grid No.1 Pin 10 - Grid No.2 Pin 11 - Cathode Pin 12 - Heater Metal-Shell Lip - Ultor (Grid No.3, Collector)			
Maximum Ratings, Design-Center Values:			
ULTOR VOLTAGE			
Negative bias value	s		
Heater negative with respect to cathode: 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 Indicates a change	S S		

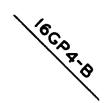




KINESCOPE

	 		
Equipment Design Ranges:			
With any ultor voltage (Ec_3) between 12000* and 14000 volts and grid-No.2 voltage (Ec_2) between 200 and 410 volts			
Grid-No.1 Voltage for	ween 200 and 410 0	0113	
Visual Extinction of		_	
Focused Raster Grid-No.1 Video Drive	-9.3% to -24% of Ec	₂ volts	
from Raster Cutoff			
(Black Level):			
White-level value (Peak positive)	9.3% to 24% of Ec ₂	volts	
Grid-No.2 Current	15 to <u>+</u> 15	μ amp	
Focusing-Coil Current (DC)°	$\frac{\text{Ec}_3}{14000} \times 107 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	ma	
Ion-Trap Magnet Current (Average)**			
(Average)	$\sqrt{\frac{\text{Ec}_3}{14000}} \times 28$	ma	
Minimum Field Strength of	1 Ec 3 21	40	
PM Ion-Trap Magnet§	$\sqrt{\frac{E_{c_3}}{14000}} \times 31$	gausses	
Field Strength of Adjustable Centering Magnet	0 to 8	danceoc	
	0 10 0	gausses	
Examples of Use of Design Ranges:			
With ultor voltage of and grid-No.2 voltage of	12000 300	volts volts	
Grid-No.1 Voltage for	Jus	0000	
Visual Extinction of		_	
Focused RasterGrid-No.1 Video Drive	–28 to –72	volts	
from Raster Cutoff			
(Black Level):			
White-level value (Peak positive)	28 to 72	volts	
Focusing-Coil Current (DC)	99 ± 10%	ma	
Minimum Field Strength of	00		
PM lon-Trap Magnet	29	gausses	
* Brilliance and definition decrease wit general, the ultor voltage should not be	h decreasing ultor volue less than 12000 volt	tage. In	
O For specimen focusing coil similar to JE tioned with airgap toward kinescope scr	TEC Focusing Coil No.1	09 posi-	
3 inches from Reference Line (See Dimer current is for condition with sharp for	nsional Outline). The i	ndicated	
and combined grid-No.1 voltage and vice produce a highlight brightness of 30 fc	deo-signal voltage adj	usted to	
dian Head Test Pattern set for a 10" x	13-1/4" picture size.		
For JETEC Ion-Trap Magnet No.117, or trailing edge of the pole pieces loca No.1 and grid No.2 and rotated to give	ted over the gap betw	with the een grid	
No.1 and grid No.2 and rotated to give	maximum prightness.		
\S See next page.	→ Indicates a	change.	





Maximum Circuit Values:

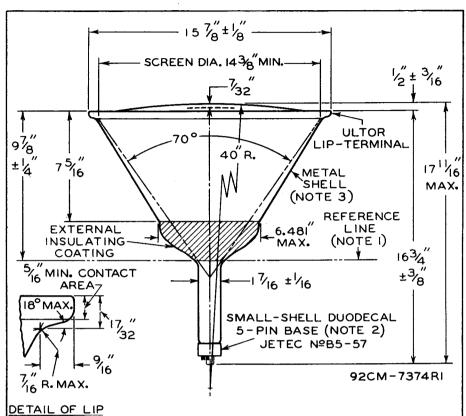
Grid-No.1-Circuit Resistance. 1.5 max. megohms

For specimen PM ion-trap magnet, such as Heppner Model No.E437, or equivalent, located in optimum position and rotated to give maximum brightness. For a given equipment application, the tolerance range for the strength of the PM ion-trap magnet should be added to the minimum value. The maximum of the trength of this magnet should not exceed the specified minimum value by more than 6 gausses. This procedure will insure use of a PM ion-trap magnet allowing adequate adjustment to permit satisfactory performance without loss of highlight brightness.

For X-ray shielding considerations, see sheet X-RAY PRECAUTIONS FOR CATHODE-RAY TUBES at front of this Section







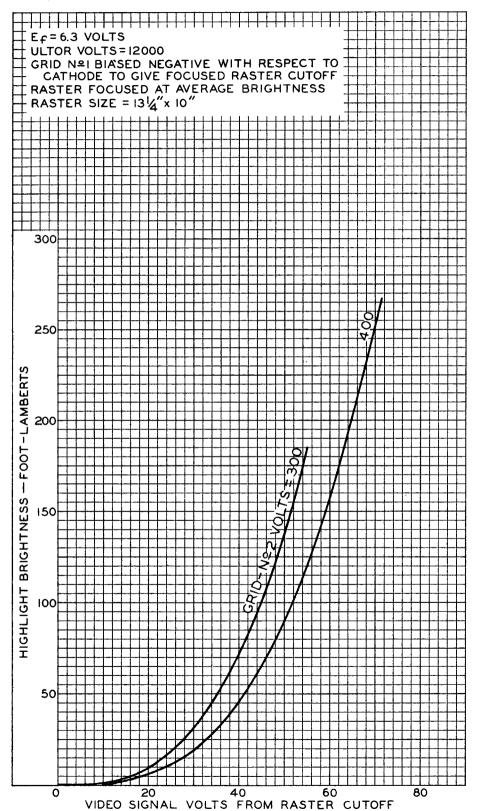
NOTE 1: WITH TUBE NECK INSERTED THROUGH FLARED END OF REFERENCE-LINE GAUGE JETEC No.110 (SHOWN AT FRONT OF THIS SECTION) AND WITH TUBE SEATED IN GAUGE, THE REFERENCE LINE IS DETERMINED BY THE INTERSECTION OF THE PLANE CC' OF THE GAUGE WITH THE GLASS FUNNEL.

NOTE 2: 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 CONCENTRÍC WITH BULB AXIS AND HAVING A DIAMETER OF 2-1/2".

NOTE 3: METAL SHELL AND GLASS FACE OPERATE AT HIGH VOLTAGE. ANY MATERIAL IN CONTACT WITH THE SHELL OR THE FACE MUST BE INSULATED TO WITHSTAND THE MAXIMUM APPLIED ULTOR VOLTAGE.



AVERAGE GRID-DRIVE CHARACTERISTICS







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