

KINESCOPE

RECTANGULAR GLASS TYPE LOW-VOLTAGE FOCUS

ALUMINIZED SCREEN MAGNETIC DEFLECTION

PIRPAC

DATA					
General:					
Heater, for Unipotential Cathode: Voltage 6.3 ac or dc volts Current 0.6 \pm 10% amp Direct Interelectrode Capacitances: Grid No.1 to all other electrodes 6 $\mu\mu$ f Cathode to all other electrodes 5 $\mu\mu$ f External conductive coating to ultor $\begin{cases} 750 \text{ max. } \mu\mu\text{f} \\ 500 \text{ min. } \mu\mu\text{f} \end{cases}$					
Faceplate, Cylindrical					
Phosphorescence					
Diagonal					
Overall length					
Greatest width					
Base					





Maximum Ratings, Design-Center Values:	
ULTOR VOLTAGE	max. volts
GRID-No.4 VOLTAGE:	
Positive value	_
	max. volts
	max. volts
GRID-No.1 VOLTAGE: Negative bias value	max. volts
, J	max. volts
	max. volts
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode:	
During equipment warm-up period	•
1	max. volts
	max. volts
Heater positive with respect to cathode. 180	max. volts
Equipment Design Ranges:	
With any ultor voltage (Ec ₅) between 14000# and 1	8000 volts
and grid-No.2 voltage (Ec ₂) between 200 and 50	oo volts
Grid-No.4 Voltage for	
Focus with Ultor	
Current of 100 μ amp0.4% to +2.2% of	Ec ₅ volts
Grid-No.1 Voltage for	
Visual Extinction of Focused Raster9.3% to -24% of	Eco volts
Grid-No.1 Video Drive from	2 10113
Raster Cutoff (Black Level):	
White-level value	
(Peak positive) 9.3% to 24% of E	
Grid-No.4 Current25 to +25	μ amp
Grid-No.2 Current15 to +15	μ amp
Ion-Trap Magnet Current	
$(Average)^{**}\sqrt{\frac{Ec_5}{16000}} \times 30$	ma
Minimum Field Strongth of	
PM lon_Tran Magnet 8	gausses
Field Strength of Adjustable	
Centering Magnet 0 to 8	gausses
Contenting magnet	9446666
# Brilliance and definition decrease with decreasing ulto general, the ultor voltage should not be less than 14000	
La a Y	
** For JETEC lon-Trap Magnet No.117, or equivalent, local trailing edge of the pole pieces located over the gap No.1 and grid No.2 and rotated to give maximum brights	between grid
S For specimen PM ion-trap magnet, such as Heppner Mode	el No.E437. or
equivalent, located in optimum position and rotated to	give maximum
equivalent, located in optimum position and rotated to brightness. For a given equipment application, the tolera the strength of the PM ion-trap magnet should be added t	o the minimum
l value. The maximum strength of this magnet should not exce	ed the speci-
fied minimum value by more than 6 gausses. This procedur use of a PM ion-trap magnet allowing adequate adjustme satisfactory performance without loss of highlight brigh	ent to permit
Satisfactory performance without 1000 or might full biright	
1	



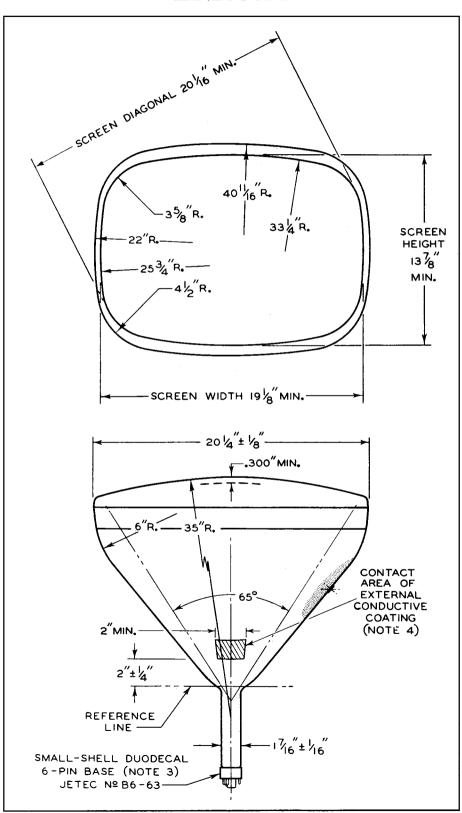


Examples of Use of Design Ra	nges:		
With ultor voltage of	14000	16000	_
and grid-No.2 voltage of	300	300	volts
Grid-No.4 Voltage for Focus with Ultor			
Current of 100 μ amp	-55 to +300	-65 to +350) volts
Grid-No.1 Voltage for Visual Extinction of			_
Focused Raster	28 to72	-28 to -72	volts
Grid-No.1 Video Drive from Raster Cutoff (Black Level): White-level value			
(Peak positive)	28 to 72	28 to 72	volts
Minimum Field Strength of	20 10 72	2.0 10 72	V 01 C3
PM Ion-Trap Magnet	31	33	gausses
Maximum Circuit Values:			
Grid-No.1-Circuit Resistance		1.5 max.	megohms

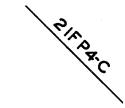
For X-ray shielding considerations, see sheet X-RAY PRECAUTIONS FOR CATHODE-RAY TUBES at front of this Section

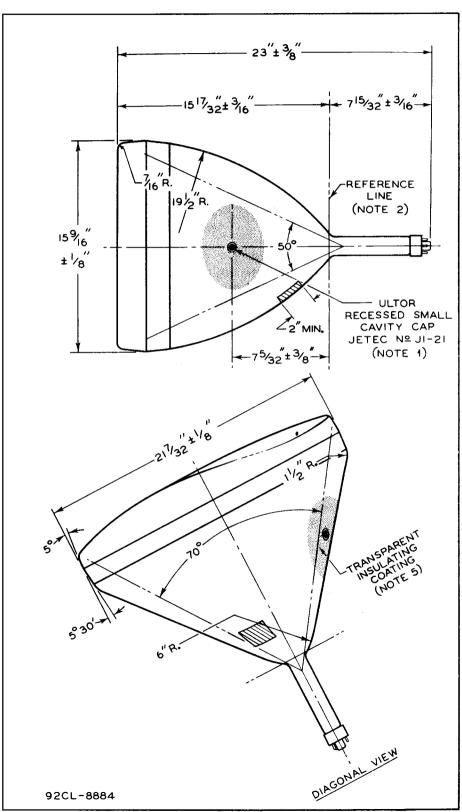
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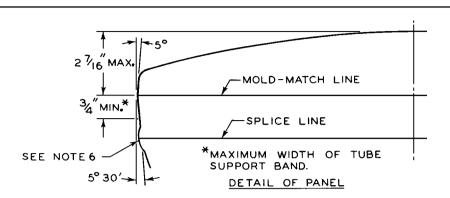












NOTE I: THE PLANE THROUGH THE TUBE AXIS AND PIN NO.6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ULTOR TERMINAL BY ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF $\pm 30^{\circ}$. ULTOR TERMINAL IS ON SAME SIDE AS PIN No.6.

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 3".

NOTE 4: THE DRAWING SHOWS THE MINIMUM SIZE AND LOCATION OF THE CONTACT AREA OF THE EXTERNAL CONDUCTIVE COATING. THE ACTUAL AREA OF THIS COATING WILL BE GREATER THAN THE CONTACT AREA SO AS TO PROVIDE THE REQUIRED CAPACITANCE. EXTERNAL CONDUCTIVE COATING MUST BE GROUNDED.

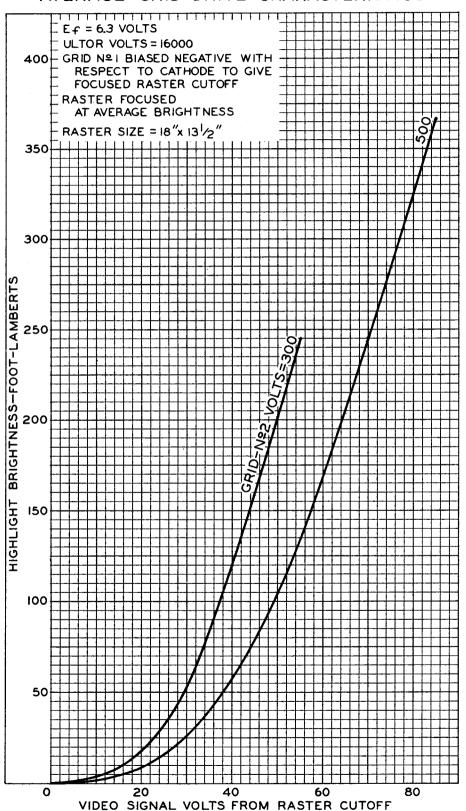
NOTE 5: TO CLEAN THIS AREA, WIPE ONLY WITH SOFT DRY LINT-LESS CLOTH.

NOTE 6: BULGE AT SPLICE-LINE SEAL MAY INCREASE THE INDICATED MAXIMUM VALUE FOR ENVELOPE WIDTH, DIAGONAL, AND HEIGHT BY NOT MORE THAN 1/8", BUT AT ANY POINT AROUND THE SEAL, THE BULGE WILL NOT PROTRUDE MORE THAN 1/16" BEYOND THE ENVELOPE SURFACE AT THE MOLD-MATCH LINE.



PIP P.C

AVERAGE GRID-DRIVE CHARACTERISTICS



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