

PIDSA

RECTANGULAR GLASS TYPE LOW-VOLTAGE ELECTROSTATIC FOCUS LOW GRID-No.2 VOLTAGE ALUMINIZED SCREEN MAGNETIC DEFLECTION CATHODE-DRIVE TYPE

DATA				
General:				
Heater, for Unipotential Cathode: Voltage (AC or DC)				
Grid No.1 to all other electrodes 6 $\mu\mu$ f Cathode to all other electrodes 5 $\mu\mu$ f 2500 max . $\mu\mu$ f				
Faceplate, Spherical Filterglass Light transmission (Approx.)				
Fluorescence. White Phosphorescence				
Tube Dimensions: Overall length				
Diagonal				





PICTURE TUBE				
Basing Designation for BOTTOM VIEW Pin 1-Heater Pin 2-Grid No.1 Pin 6-Grid No.4 Pin 10-Grid No.2 Pin 11-Cathode Pin 12-Heater	Cap - Ultor (Grid No.3, Grid No.5, Collector) C - External Conductive Coating			
CATHODE-DRIVE SERVI	CE			
Unless otherwise specified, voltage values				
are positive with respect to grid No. 1				
Maximum and Minimum Ratings, Design-Cent	[20000 max. volts			
ULTOR-TO-GRID-No.1 VOLTAGE	120000 max. voits			
GRID-No.4-TO-GRID-No.1 VOLTAGE: Positive value	1000 max. volts 500 max. volts 64 max. volts 64 max. volts 200 max. volts 140 max. volts 2 max. volts 410 max. volts 410 max. volts 180 max. volts			
Equipment Design Ranges:				
With any ultor-to-grid-No.1 voltitueen 12000 and 20000 volts and griven No.1 voltage (E _{C2g1}) between 4 Grid-No.4-to-Grid-No. Voltage for focus§ Cathode-to-Grid-No.1 Voltage (Ekg1) for visual extinction	id-No.2-to-grid- o and 64 volts O to 400 volts			
of Focused raster See Rast Cathode-to-Grid-No.1 Video Drive from Raster Cutoff (Black level): White-level value (Peak negative) Same va	ter-Cutoff-Range Chart alue as determined for keept video drive is a negative voltage			



2IDSP4 PICTURE TUBE

Grid-No.4 Current



μа

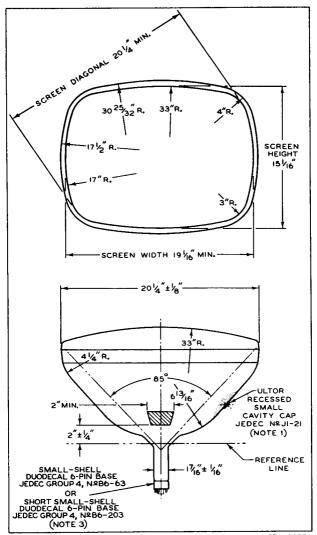
-25 to +25

	Grid-No.2 Current	-15 to +15	μα
	Centering Magnet*	0 to 8	gausses
	Examples of Use of Design Ranges:		
	With ultor-to-grid-		
	No.1 voltage of and grid-No.2-to-grid-	18000	volts
	No. 1 voltage of	50	volts
- 1	Grid-No.4-to-Grid-No.1 Voltage		
	for focus	0 to 350	volts
ĺ	for visual extinction		
	of focused raster	32 to 47	volts
	Cathode-to-Grid-No.1 Video Drive		
	from Raster Cutoff (Black level): White-level value	-32 to -47	volts
	Maximum Circuit Values:		
	,,	1 5	maaahma
	Grid-No.1-Circuit Resistance	1.5 max.	megohms
	Cathode drive is the operating condition in varies the cathode potential with respect to	which the vio	the other
	welectrodes.	g	
	The grid-No.4 voltage or grid-No.4-to-grid-No focus of any individual tube is independent of	ultor curren	t and will
	remain essentially constant for values of ult or grid-No.2-to-grid-No.1 voltage within d	or-to-grid-No esign ranges	.1 voltage shown for
	these items. * Distance from Reference Line for sultable PM	centerino mag	net should
	not exceed 2-1/4". Excluding extraneous fie undeflected focused spot will fall within a ci	elds, the cent	er of the
	radius concentric with the center of the t	ube face. It	is to be
	noted that the earth's magnetic field can can deflection of the spot from the center of the		s 1/2-Inch

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

The cathode-to-grid-No.1 voltage (Ekg1) for visual extinction of focused raster will increase by approximately 2 per cent for every 1000-volt increase in ultor-to-grid-No.1 voltage and will decrease by approximately 2 per cent for every 1000-volt decrease in ultor-to-grid-No.1 voltage.

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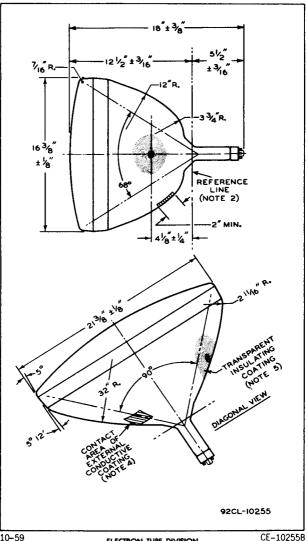


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2IDSP4 PICTURE TUBE

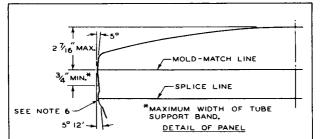








PICTURE TUBE



NOTE I: THE PLANE THROUGH THE TUBE AXIS AND PIN 6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ULTOR TERMINAL BY ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF \pm 30°. ULTOR TERMINAL IS ON SAME SIDE AS PIN 6.

NOTE 2: WITH TUBE NECK INSERTED THROUGH FLARED END OF REFERENCE-LINE GAUGE JEDEC No.G-116 (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.

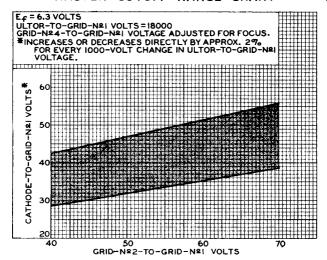
NOTE 3: SOCKET FOR THIS BASE SHOULD NOT BE RIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN A CIRCLE CONCENTRIC WITH BULB AXIS AND HAVING A DIAMETER OF 2-3/4".

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 LINTLESS CLOTH.

NOTE 6: BULGE AT SPLICE-LINE SEAL MAY INCREASE THE INDI-CATED 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.

RASTER-CUTOFF-RANGE CHART



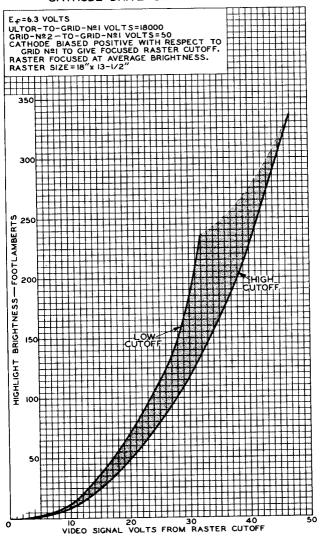
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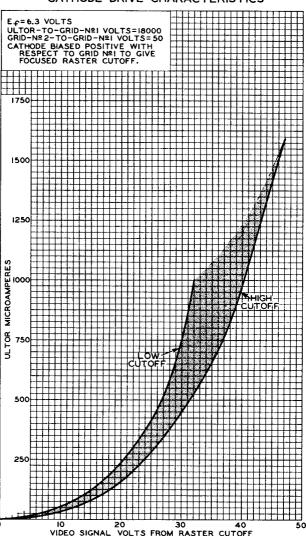


CATHODE-DRIVE CHARACTERISTICS





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