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23DFP4

GEOLRAL DESCRIPTION				
viewing, rectangular p:	electrostatic focus and magnetic deflection, direct icture tube. Feature of this tube include a very short l neck diameter, an aluminized screen and a non-ion			
Heater, for unipotentia	al cathode			
Heater current at	.c. or d.c.)			
Direct interelectrode of	capacitances			
Cathode to all oth	ther electrodes			
Optical Data				
Light Transmittand Fluorescence Phosphorescence	Aluminized P4 ce at Center, Approximete 53 Percent White White Short			
Focusing method : elect Deflecting method : mag Deflection angle (appro	gnetic ox.)			
Deflecting method : mag	gnetic			
Deflecting method : mag Deflection angle (appro	gnetic ox.) diagonal 110° horizontal 99°			
Deflecting method : mag Deflection angle (appro	gnetic ox.) diagonal 110° horizontal 99° vertical 82°			
Deflecting method : mag Deflection angle (appro Electron gun : type red Tube dimensions	gnetic ox.) diagonal 110° horizontal 99° vertical 82°			

from JEDEC release #3833, July 30, 1962

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- 2 -Minimum Useful Screen Dimensions (Projected)  $19 \ 1/4" \ (489mm)$ Horizontal axis ..... 15 1/8" (385 mm) Vertical axis ..... 22 5/16" (566 mm) Diagonal ..... 280 sq. in. (1806 cm2) Projected area ..... Weight (approx.) ..... 26 lbs (12 kg) Bulb ..... (See drawing) Cap ...... Recessed small cavity J1-21 B7-208 Base ..... Basing ..... 8HR Socket connections Pin  $n^{\circ}$  = heater  $Pin n^{\circ}2 = grid n^{\circ}1$  $Pin n^{\circ}3 = grid n^{\circ}2$  $Pin n^{0}4 = grid n^{0}4 (focus)$  $Pin n^{\circ}6 = grid n^{\circ}1$ Pin  $n^{07} = cathode$ Pin  $n^{\circ}8 = heater$ Cap = grid nº3 - grid nº5 - collector (\*) The time required for the voltage across the heater to reach 80 per cent of its rated value after applying 4 times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to 3 times the rated heater voltage divided by the rated heater current. MAXINUM RATINGS Absolute maximum Values Cathode Drive Servide Unless otherwise specified, voltage values are positive with respect to grid nº1. Anode to grid nº1 voltage ..... 20000 max. volts 14000 min volts Grid nº4 to grid nº1 voltage positive value ..... 1100 max. volts negative value ..... 550 max. volts Grid nº2 to grid nº1 voltage ..... 700 max. volts Grid nº2 to cathode voltage ..... 550 max. volts Cathode to grid nº1 voltage Positive peak value ..... 220 max. volts Positive bias value ..... 154 max. volts Negative bias value ..... 0 max. volt Negative peak value ..... 2 max. volts

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		- 3	
		2	
Peak heater cathode voltage			
- Heater negative with respect to cathode : during equipment warm-up period not exceed After equipment warm-up period			
- Heater positive with respect to cathode		200 max. volts	
Grid nº1 circuit resistance		1.5 max. megohm	s
TYPICAL OPERATING	CONDITIONS		
Cathode drive S	Service		
Anode to grid nº1 voltage	16 000	18 000	volts
Grid nº2 to grid nº1 voltage	400	400 500	volts
	5 to +15	-15 to $+15$	ua
	) to 400	0 to 400	volts
	5 to +25	-25 to +25	ua
Cathode to grid n°1 voltage for visual extinction of focused raster		to 78 <b>47</b> to 92	volts
	) to 8 0	to 80 to 8	gausses
(1) The grid n°4 voltage required for optimum for may have a value anywhere between 0 and 400 v of anode current and will remain essentially anode voltage or grid n°2 voltage within desi	volts. It is i constant for v	ndependent alues of	
these items.			
It is necessary to provide means such adjusting the focusing voltage.	as a potentiomete	er for	

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23DFP4

#### NOTES for DIMENSIONAL OUTLINE

- 4 -

- <u>Note 1</u> The plane through the tube axis and pin 4 vary from the plane through the tube axis and anode terminal by angular tolerance (measured about the axis) of  $\pm 30^{\circ}$ . Anode terminal is on same side as pin 4.
- <u>Note 2</u> Socket for this base should not be rigidly mounted; it should have flexible leads and be allowed to move freely. The design of the socket should be such that the circuit wiring cannot impress lateral strains through the socket contacts on the base pins. Bottom circumference of base wafer will fall within a circle concentric with bulb axis and having a diameter of 1 3/4".
- <u>Note 3</u> Width of undisturbed region between mold-match line and splice line is 19/32" minimum. This should be the maximum width of tube support band.
- <u>Note 4</u> With tube neck inserted through flared end of the reference-line gauge JEDEC G.126 and with tube seated in gauge, the referenceline is determined by the intersection of the plane CC' of the gauge with the glass funnel.

11th May 1962

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