Specification MOS(A)/CV2286	SECURITY			
Issue 2 Dated 1. 4. 54.	Specification	Valve		
To be read in conjunction with K1001	UNCLASSIFIED	UNCLASSIFIED		

- Indicates a change

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TYPE OF VALVE - Cathode Ray Tube							MARKING			
TYPE OF DEFLECTION	ON - Electrostatic, symmetrical					Sec K1001/4				
TYPE OF FOCUS	-	Electrost	tatic							
BULB	-	Internall conductiv				BASE				
SCREEN	-	YY6				B12D				
PROTOTYPE	-	VCRX393				CONNECTIONS				
	Pin Electrode									
Heater Voltage Heater Current Max. Fourth Anode Voltax. Third Anode Voltax. First Anode Voltage Typical Operating Co Fourth Anode Voltage Third Anode Voltage Second Anode Voltage First Anode Voltage X-plate Sensitivity Y-plate Sensitivity	Ltag Ltag mdi	e e	4.0 1.1 6.0 4.0 2.5 4.0 2.0 350 2.0 0.18 0.24	A A A	Sn DIMENS	G C H H Al A2 Internally coated (See Note D) Y2 X2 A3 X1 Y1 A4 SIDE CONTACT Tap Terminal. GIONS AND CONNECTIONS Drawing on Page 4				

NOTES

- A. The tube shall operate with Val = 2.5 kV, Va3 = 3kV, and Va4 = 6kV under conditions of reduced pressure equivalent to 6 ins of mercury at 15°C.
- B. The tube shall be adequately free from microphony.
- C. The tube shall be of the post deflection accoleration type, and the design shall be such that with Val = 2.5kV the focus shall be substantially unaffected by varying the value of Va4 to that of Va3. A change of + 10% in Va2 shall not produce an approciable change in cut-off voltage.
- D. The tube will normally be operated with A3 and conductive coating tied, and if the manufacturer so desires these electrodes may be strapped internally with the connection omitted from contact marked "internal coating".

To be perfermed in addition to those applicable in K1001

			Tes	t Cor	ndi titons			<u> </u>	Limits		N-			
ı		Vh (V)	Va4 (kV)	Va3	Va2 (kV)	Val	Vg (V)	Test	Min.	Max.	No. Tested	Noto		
								d symmetrically in all cases.						
	а	Sec I	K1001/	5A.1	3			Capacitances (pF) 1. Each X or Y-plate to all other cloctrodes. 2. One X-plate to one Y-plate 3. Grid to all other electrodes.	1 1	25 6	5%(10) 5%(10) 5%(10)			
Ì	ъ	4.0	0	0	0	0	0	Ih (A)	0.8	1.3	100%			
	С	4.0	4.0	2.0	Adjust for optimum focus		Adjust to cutoff	Vg (V) Value to be noted	-	-100	100%			
	đ			to gi	As for Test (c) ive a li la.	2.0	rtput	1. Vg (V) 2. Change in Vg from Test (c) (V) 3. Within the range of grid voltage from cut-off to standard light output the beam current shall increase continuously.	-	35	100%			
	е	base leng and succ be m trac GRID posi ampl obta Nom.	of 10 th of 70 mm essive easure c. The tively itude ined i	-Wike/s 66 mm in the ly, s d at grid from equal n Tes 100 A	As for Test (c) ith a si s nom. a m in the line the cen will be cut-of to the st (d.2) secs.	ne way nd lir X din ection width tre of e pul: f with value	ne rection n n shall f the	1	ţ	0.6	100%			

			Test (Conditions			Limits		No.		
	Vh Va4 Va3 Va2 Val Vg						Test	Min. Max.		Tested	Note
	(V)	(kV)	(kV)	(kV)	(kV)	(v)					
f	4.0	4.0	2.0	Any con- venient value	2.0	- 80	Crid Insulation 1. Leakage current (µA)	-	8	100%	
		mmend Klool,		thod: .2, Resist		10 megohms	2. Increase in voltmeter reading	-	100%	100%	
g	4.0	4.0	2.0	As for Test (f)	2.0	Any con- venient value	Deflection Sensitivities 1. X-plate (mm/V) 2. Y-plate (mm/V)			级(10) %(10)	
h	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	Deviation of spot from centre of sereen (mm)	1	6	100%	
j	Meas			As for Test (f)			Useful Screen Area 1. Deflections to cover stated rectangle	-	-		
		essive		the X and	I dire	ections	2. Deviation of centre of boundary lines of raster from a true rectangle (mm)		<u>+</u> 2	5;í	
k	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	1. Orientation of X axis of deflection relative to OO' on drawing 2. Orientation of the diameter through the centre of the snap terminal relative to OO'	800	1000	100%	
m	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	Angle between X and Y axes of deflection	88°	92 ⁰	100%	
n	4.0	4.0	2.0	As for Test (f)	2.0	Adjust	Persistence (secs)	4	16	100%	
	test		and	performed a close ra							

