VALVE ELECTRONIC CV223C

	HITTSTRY OF SUPPLY R	·R·E·		VALV	E ELECTRON	TC			
	Dated April 1	pecification MOS/CV2230 Issue 4 ated April 1955 o be read in conjunction with K1001			Specifica Unclassif	tion	RITY Valve Unclassified		
•									
	Control of the Contro	OF DEFLECTION: - Magnetic OF FOCUS: - Electrostatic				MARKING See K1001/4			
	TYPE OF FOCUS:- BULB:-				BASE I.O.				
∍	SCREEN: -	conducti BB1 <b>A</b> lum backed.		_	<u>C</u> Pin		TIONS Dectrode		
7	PROTOTYPE: -  RATING  Heater Voltage Heater Current Max. First Anode Vol Max. Third Anode Vol	tage (kV)	6.3 0.6 1.45 8.0	Note	1 2 3 4 5 6 7 8 C.	a1 a2	connection connection		
	TYPICAL OPERATING CO Third Anode Voltage Second Anode Voltage First Anode Voltage	age (kV) tage (kV)	Voltage (kV) 7.0 Voltage (kV) 1.0	ge (kV) 7.0 nge (kV) 1.0	À	SIDE CONTCT B. S. 448 CT7 DIMENSIONS		8 CT7 SIONS	
					See	PACK	ng page 5 AGING K1005		
	NOTES								
	A. The first anode must always be at least 50V positive to the								

The first anode must always be at least 50V positive to the second anode.

CV2230

To be performed in addition to those applicable In K1001

lause	Test Conditions	Tests		its	No.
Clar			Min.	Max.	Tested
а	See K1001/5A.13	Capacitances (pF) 1. Grid to all other electrodes 2. Cathode to all other electrodes		20 15	5% (5)

FOR ALL TESTS GIVEN BELOW  $V_h = 6.3V$ 

ъ		Th	(A) 0.28	0.66	100%		
-	FOR ALL TESTS GIVEN BELOW Va1 = 1.25 kV, Va3 = 7.0kV						
0	Vg adjusted for cut-off and Va2 adjusted for optimum focus	-Vg Value to be noted	(V) 40	80	100%		
đ	Vg adjusted to give a light output of 0.04 "orthochromatic candela" from a raster of convenient size. Va2 adjusted for optimum focus. See K1001/5A.9.		(V) (ui) 1.5 con- earo	20 12	100% 100% 5%(5) 100%		
	With a sine or linear line scan of nominal writing speed 3 mm/uS in X and Y directions successively. Va2 adjusted for simultaneous compromise focus in both axes. The grid to be pulsed positively from cut off by the voltage found in test d2. at a nominal pulse duration and recurrence frequency of 100 uS and 100 c/s respectively.	1. Line width at the centre of the tra	ace (mm)	0•3 1200	100% 100%		

		ibbib (oonar)	CV223C		
Clanse	Test Conditions	Tests	Limits Min. Max.	No. Tested	
f		Grid Insulation Leakage current (uA) Increase in voltmeter reading	- 8 - 100%	100%	
٤	Va2 as in "d" Vg any convenient value No deflecting field	Deviation of spot from centre of screen (mm)	~ 5	100%	
ŀ	Adjust Vg for cut off. With no deflecting field grid to be pulsed positively by the drive value found in test "d.2" at a pulse length of 10 uS and repetition frequency of 10 kc/s. Va2 adjusted for a defocussed spot not smaller than 5 mm. diameter.	Afterglow (usec) Decay time to 30% of the excitation level. To be measured by an approved method.	4	5% (5)	
k	Defocused raster scan to cover an area of at least 80 x 18 mm. centred on the geometric centre of the screen and on any diameter of the screen. Vg any convenient value. (See Notes 1 and 2)	Screen Blemishes in the stated area. Bubbles and Dead Spots 0.15 to 0.3 mm 0.5 to 0.6 mm 0.6 to 1.0 mm Bright and Colour Spots	None noticeable at the normal reading distance of the	100%	
1	Va2 350y Increase Vg positively from cut-off until the beam fills a sharp edged aperture.	Diameter of beam on the screen (mm)	observer	5%(5)	



	Clause	Test Conditions	Tests	Limits Min. Max.		No. Tested
<b>→</b>		Using an approved deflection coil, tube to be scanned with a suit- able sweep. Adjust Vg for any convenient light intensity and Va2 for optimum focus.	neck shadowing over the area stated in			100%
→		The external surface of t parallel planes whose sep 0.25 mm. over a circle of centred on the geometric			100%	

## NOTES

## Notes

- 1. If a specific area on one diameter only satisfies the specification then that diameter shall be indelibly marked at the centre of each end of the major axis of the raster on the tube face outside the useful screen area.
- 2. If two or more blemishes are separated by a distance not greater than the maximum dimension of the largest blemish in the group then the group of blemishes shall be considered as one blemish of dimension equal to the maximum overall dimension of the group.

