MINISTRY OF SUPPLY D.L.R.D.(A)/R.A.R.

VALVE BLECTRONIC CV 511

Specification MOSA/CV1511	SECURITY		
Issue 5 Dated 16.4.1953 To be read in conjunction with K1001	Specification UNCLASSIFIED	Valve UNCLASSIFIED	

Indicates a change

TIPE OF VALUE - Cathode Ray Tube TIPE OF DEFLECTION - Electrostatic, Suitable for symmetrical deflection internally coated with conductive coating. SCREEN - BYIAO or BYM25 or BYLAG	MARKING See K1001/4 BASK B 12 D CON MECTIONS			
PROTOFIPE - VOR511		Pin	Electrode	
Heater Voltage Heater Current Max. Final Anode Voltage L-plate Sensitivity TIPICAL OPERATING CONDITIONS Final Anode Voltage Second Anode Voltage Ream Current (V) Beam Current (V) Beam Current (V) L-0 L-0 L-0 L-0 800 20	Note	1 2 3 4 5 6 7 8 9 10 11 12	G G H H No connection A2 No commection Y2 I2 A3 X1 Y1	
		See	DIMENSIONS Drawing on Page 3.	

NOTES

- A. A magnetic shield shall be supplied fitted to the valve, and be such as to provide adequate screening from internal magnetic field.
- B. When viewing the screen with the valve positioned such that the base spigot is uppermost, a positive woltage applied to the terminal X1 shall deflect the spot to the right, and a positive voltage applied to the terminal Y1 shall deflect the spot downwards.

CV | 5 | To be performed in addition to those applicable in K1001

Test Conditions					Test		Limits		No.	
	TOD & AGINT ATGIN			leaf		Min.	Max.	Tested		
	٧h	Va3 (k V)	Va2	Vg	INTER-RLECTRODE CAPACITANCES (pF)					
	Sec	See K1001/54.13		 Each X or Y plat to all other electrodes. Grid to all other electrodes One X to one Y p 	- -	20 20 5	5%(10)			
Ъ	4.0	0	0	0	Ih	(A)	0.75	1,2	100%	
0	4.0		Adjust for optimum focus	Adjust	-∀g	(₩)	1	-	100%	
	outp	ut of	to give a 0.01 cand raster (th Type 26 (elas on rough a						
đ	4.0	4.0	ditto	Adjust to out- off	(1) -Vg (2) Change in value Vg from test (c	(∀) s of s) (∀)	23 -	60 25		
•	mave (non leng and dire GRII puls	time inall; th of 200 m etions The g	With a base of 1 y) and a l 200 mm in n in the Y s successi grid will sitively f	0 kg/s ine the X vely. be rom cut-	(1) Line width (2) Vs2	(A)	- 600	0.8 1200	100%	
	off with amplitude equal to the value obtained in test d(2), the nominal value of pulse duration and recur- rence being 100 usecs and 1000/s respectively.									
2		4.0	Any conven- ient value	-60	GRID INSULATION 1. Leakage Current 2. Increase in volumeter reading		-	6.0 100%	100%	
	K1	Recommended method K1001/54.3.2 Resistor = 10MQ								
g	4.0	4.0	Adjust for optimum focus.	Any conven -ient value.	DEFIRCTION SENSITIVITIES 1.X.plate 2.Y.plate	(™/V)	750/Va3 750/Va3	1250/¥a3 1250/¥a3	10%(10	

Test Conditions			Conditions		Test	Lim Min.	its Max.	No. Tested
	٧h	Va3 (kV)	Va 2	Vg				
h	4.0	4.0	Adjust for optimum focus	Any conven- ient value	Deviation of spot from centre of screen (mm)	-	25	100%
3	Defl		ditto as measure re of scre		USEFUL SCREEN AREA 1.X deflection (mm) 2.Y deflection (mm)	± 105 ± 50	-	100% 100%
k	4.0	4.0	ditto	ditto	1.0rientation of X axis of deflection relative to 00° on drawing. 2.Angle between X and Y axes of deflection.	80° 85°	100° 95°	100% 100%
1				-	The screen shall not be worse for graininess and non-uniformity than a standard tube or pattern.			
m		to b	carried 331	out in	Afterglow (secs)	15	-	

