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

VALVE ELECTRONIC CV1518

Specification MOSA/CV1518
Issue 5 Dated 5.7.56
To be read in conjunction with B.S.448, B.S.1409
and K.1001.

SECURITY
Specification Valve
UNCLASSIFIED UNCLASSIFIED

Indicates a change

			The state of the s	THE RESERVE THE PARTY NAMED IN		
	TYPE OF DEFLECTION - E	athode Ray Tube	MARKING See K.1001/4			
	a X a	Plates suitable symmetrical definition of plates suitable symmetrical and effection.	flection of le for bot	h		<u>BASE</u> B.S.448/B12B
	BULB - G	lectrostatic lass, unmetalli	CONNECTIONS			
•	SCREEN - B	ncoated B3 or GG3. Whe	hen green the		Pin	Electrode
	. a c	creen shall be ctivated zinc s 9. VCR518			1 2 3	k g h
	RATI	NG		Note	2 3 4 5 6 7	n h - a2
	Heater Voltage Heater Current Max. Third Anode Volta Max. Grid Voltage x plate sensitivity Each y plate sensitivit TYPICAL OPERATING CONDI Second Anode Voltage Third Anode Voltage	A				
	Hood (a4) Anode Voltage Modulator Voltage Cathode Current Beam Current	e (kV) (V) (μA) (μA)	1 • 23 14 135 15	В	See d	rawing on page 4.

NOTES

- A. The tube shall be of three anode construction with the first anode connected internally to the third anode.
- B. The hood a4 is an internal electrostatic shield around the deflecting system.
- C. Viewing the screen of the tube with the key on the base downwards, a positive potential applied to Pin x1 shall deflect both spots to the left, a positive potential applied to Pin y1 shall deflect one spot upwards, and a positive potential applied to Pin y2 shall deflect the other spot downwards.

CV1518

To be performed in addition to those applicable in K.1001

	T	est C	onditions	-	Test	Lin Min.	mits Max.	No. Tested	Note
	VO	ltage	s applied	to the x	4 shall be connected to -plates shall be applied sured in the a4 lead.	a3, and a	my defle	ction The	
	Vh	Va3 (kV)	Va2	٧g					
a	4	0	0	0	Ih (A)	1	1.25	5%(1)	
b	4	1.2	-	To give Ib=10µA	Va2 (V)	200	400	%(1)	·
c	4	1.2	<u>-</u>	Varied from zero to value for cut off	Variation in value of Va2 for optimum focus over the stated range of Vg (V)	-	20	10%	
a	4	1.2	Adjust for optimum focus	Adjust to give cut off of both beams	-v _g (v)	dish	35	100%	
е	4	1.2	ditto	Adjust to give cut off of each beam in turn	Difference in value of Vg for cut off of each beam (V)	<u>-</u>	4	100%	
f	Ad; lig car	just V ght ov	ditto /g to give itput of . s on a clo	004	-vg (v)	3	30	100%	
g	DEF way non 30 din the	1.2 TECT Te time. and mm. : rections a line	ditto ION with a me base of a line ler in the x a cons successe width to at the cotrace.	10 kc/s ngth of and y ssively,	(1) Line width shall not be greater than that of a standard tube over the useful screen area.			100%	
h	See		ditto 001/5A.3.2 r = 1 Mego		GRID INSULATION Leakage current (µA) Increase in voltmeter reading	-	30 100%	100% 100%	
j	4	1.2	ditto	Any conven- ient value	DEFLECTION SENSITIVITIES	500/Va3 310/Va3	61 6/Va3 430/Va3	5%(1) 5%(1)	

	Test Confilhions				T. See See See See See See See See See Se	i i i i i i i i i i i i i i i i i i i		Maria Tarah	Type - ** in a
	ei-	ten in	(37.1) - 1 (4.1) (6.7) (3	ă.		a things of	Mes.	1 Phys 1 17	
ere vegy	1000 P	nagognacion desc N.B. L. 171	grade a mandre de la companione de la compa	garantario establismo	And the second s	and the section	e e company		
1	V m		1 4 A	\$ 55 to	-				
i nest	· · · · · · · · · · · · · · · · · · ·		Section 1997	(1) *					
. (44.		10 PM			\$ 1. 1. 2.		* 1	
Ì			in frank Handarijan						
:			n en North gas						
	Def J		ne rijaeli.						
	1.5		at the first						
				* .					
,			434 1000	tid in the second					
				and the second s					
	ė S				ing a second				
SK JANG	e Januar (1784)	part of properties	a ce commentar con es		the state of the s				
75	* * {			in mary					
	4		era julija						
	(2)		an imb		27.5			a a	
	r			e.		5	i Linear services	. v _a 1 •.	
					A toller of the same				ne de la companya de
n.		1.2	ditto	ditto	ORIENTATION OF AXES				
	1 * '	1			OF DEFLECTION				
				7 4 4	i				
			sured re		1	1_	+200	4.004	
	to	xis C	sured re		y axis	-	±20°	100%	
	to dra	ixis C	-0' shew	n in	y axis	-	±20°	100%	
	to dra	ixis C		n in	y axis	_	±20°	100%	
<u> </u>	to a	ving.	ditto	ditto	y exis (1) Deflection of y	-	±20°	100%	
 o	to a	ving. 1.2 Saw t	ditto	ditto lection ied to	(1) Deflection of yt trace as a per-	-			
•	to a	ving. 1.2 Saw t volta	ditto cooth defi uges appl	ditto lection ied to o y2	(1) Deflection of yt trace as a per- centage of	-	±20°	100%	
<u> </u>	to a	1.2 Saw t volta plate	ditto ditto coth defi ages appl ate and t	ditto lection ied to o y2	(1) Deflection of yt trace as a per- centage of maximum y2	-			
 o	to area	1.2 Saw t volta x pla plate	ditto coth defi ges appl te and t y plat d to a3.	ditto lection ied to o y2	(1) Deflection of yt trace as a per- centage of maximum y2 displacement	-			
o	to area	1.2 Saw t volta plate joine Saw t	ditto coth defi ges appl tte and t typi plat ad to a3.	ditto lection ied to o y2 e	(1) Deflection of yt trace as a percentage of maximum y2 displacement (2) Deflection of y2	-			
0	to area	ving. 1.2 Saw t volta x plate joine Saw t volta	ditto coth defi ges appl te and t y plat d to a3.	ditto lection ied to o y2 e lection ied to	(1) Deflection of yt trace as a percentage of maximum y2 displacement (2) Deflection of y2 trace as a percentage of	-	2%	100%	
o	to area	1.2 Saw t volta x plate joine x plate plate y plate y plate y plate x plate x plate x plate x plate x plate y plate	ditto coth defiges appl te and t y plat d to a3. coth def	ditto lection ied to o y2 e lection ied to o y1 te	(1) Deflection of yt trace as a percentage of maximum y2 displacement (2) Deflection of y2 trace as a per-	-			

