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

VALVE ELECTRONIC

Page 1 (No. of pages - 4) Aviation MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.	VALVE ELECTRONIC	C'	VI528	Amel 1
Specification MOSA/CV.1528 Issue 4 Dated 12.6.53. To be read in conjunction with K.1001.		SECURITY Specification Valve UNCLASSIFIED UNCLASSIFIED		

Indicates a change

TYPE OF VALVE - Cathode Ray Tu TYPE OF DEFLECTION - Suitable for e or magnetic de BULB - Internally coa conductive coa SCREEN - OOM. 52 PROTOTYPE - VCR. 528	MARKING See K.1001/4			
RATING		Note	12	BASE contact key base CONNECTIONS
Heater Voltage Heater Current Max. Final Anode Voltage Max. First Anode Voltage K-plate sensitivity Y-plate sensitivity Desirable spot size TYPICAL OPERATING CONDITIONS Final Anode Voltage Second Anode Voltage First Anode Voltage KV Ream Current	1300/Va3 0.25 6 1.6 1.8		Pin 1 2 3 4 5 6 7 8 9 10 11 12	Electrode Cathode Grid Heater Heater A1 A2 Internal conductive coating Y2 X2 A3 X1
Beam Current (uA)	20	A	See	DIMENSIONS Drawing on page 4

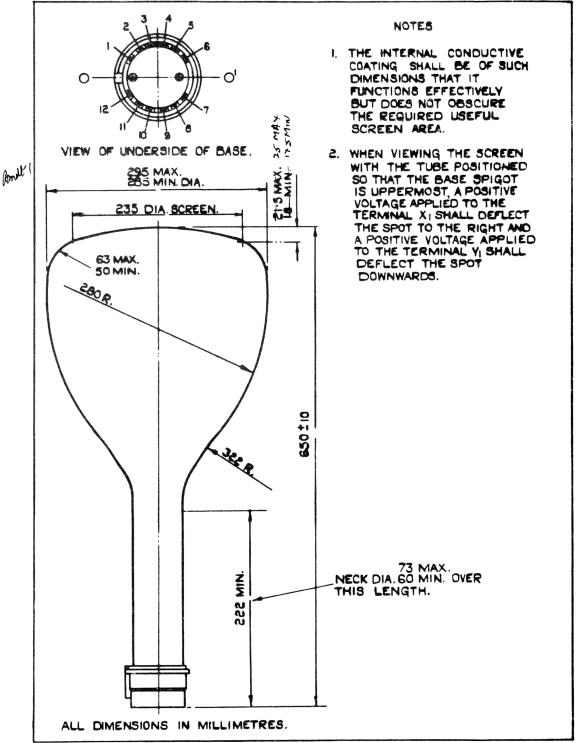
NOTE

A. The tube is not suitable for use with a repeating line trace except at very low beam current, owing to extreme liability to screen burning.

CV1528 To be performed in addition to those applicable in K.1001

Test Conditions					Limits		No.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
1	1626 OURTHOUR		Test	Min.	Max.	Tested	Note			
	See K.1001/5A.13					CAPACITANCES. (pF) 1. Each X or Y- plate to all other electrodes. 2. Grid to all other electrodes. 3. One X to one Y-plate.	-	20 25 10	5%(10) 5%(10) 5%(10)	
	٧h	Va3 (kV)	Va2 (kV)	Va1 (kV)	Vg					
ъ	4	0	0	0	0	Ih (A)	0.8	1.3	100%	
o	4	6	Adjusted for op- timum focus	1,8	Adjust to give out-off	Vg (V) Value to be noted.	-	-100	100%	
đ	d 4 6 ditto 1.8 - Vg adjusted to give a light output of 0.025 candelas on a close raster.					(1) Vg (V) (2) Change in value of Vg from test (c) (V)	-3 -	40	100%	
e 4 6 ditto 1.8 - DEFLECTION. With a sine wave time-base of 10 ko/s nom. and a line length of 210 mm in the X and Y directions successively, the line width will be measured at the centre of the trace. GRID. The grid will be pulsed positively with amplitude equal to the value obtained in test "d.2", the nominal values of pulse duration and recurrence being 100 usecs and 100 c/s, respectively.					and a the X vely, asured e. ulsed equal test of ence	(1) Line width (mm)		0.8 1800	100%	
f	4 6 Any con- venient value See K.1001/5A.3.2. Resistor = 10 MΩ					GRID INSULATION 1. Leakage current (uA) 2. Increase in voltmeter reading	-	10 100%	100%	
g	4	6	Adjusted for op- timum focus	1.8	Any con venient value	DEFLECTION SENSITIVITIES 1. X-plate (mm/V) 2. Y-plate (mm/V)	4000	1660 Va3 1600 Va3	100%	

Test Conditions		Test	Limits		No.	Note				
		16	se commen	. Olis		1030	Min.	Max,	Tested	1.000
	۷ħ	Va3 (kV)	Va2 (kV)	Va1 (kV)	Vg					
h	4	6	Adjusted for op- timm focus	1.8	Any con- venient value	Deviation of spot from centre of screen (mma)	-	25	100%	
j	j 4 6 ditto 1.8 ditto Deflections to cover stated rec- tangle centred in the centre of the screen with the longer axis in the I direction.			Useful Screen Area Rectangle (mm)	210 X 100		100≸			
k	k 4 6 Any convenient value Angle measured relative to axis Oo' on drawing on page 4.				Orientation of Y axis of deflection	•	<u>+</u> 10°	100%		
12.	4	6	ditto	1.8	ditto	Angle between X and Y-axis	88°	92°	5%(10)	
n Test to be made using Test Set Type 331.			Afterglow (seconds)	10	20	10%				



ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATIONS MOSA/CV1528 ISSUE 4 DATED 12.6.53

AMENDMENT NO. 1

- 1. Page 1. Top of Page
 - (a) Amend the Specification Authority "MINISTRY OF SUPPLY D.L.R.D.(A)/R.A.E." to read "MINISTRY OF AVIATION D.L.R.D./R.A.E."
 - (b) Amend the Specification Title "Specification MOSA/CV1528" to read "Specification MOA/CV1528".
- 2. Page 4 Outline Drawing

Amend the Chord Height of Screen dimensions of "Min. 18" and "Max. 21.5" to read "Min. 17.5" and "Max. 25".

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