Specification MOS(A)/CV1534	SECURITY			
Issue 1 Dated 31. 3. 54.	Specification	Valve		
To be read in conjunction with Kl001.	UNCLASSIFIED	unclassifted		

TYPE OF VALVE TYPE OF DEFLECTION BULB	MARKING See Klool/4 BASE								
SCREEN PROTOTYPE	- 009 - VCR.528	ive coatir			B12D				
		CONNECTIONS							
Heater Voltage Heater Current Max. Final Anode Vo. Max. First Anode Vo. X-plate sensitivity Y-plate sensitivity Desirable spot size TYPTCAL OPERATING CO. Final Anode Voltage Second Anode Voltage First Anode Voltage Beam Current	ltage	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	4.0 1.0 7 2 1345/Va3 1300/Va3 0.25	Note	Pin 1 2 3 4 5 6 7 8 9 10 11 12	Electrode Cathode Grid Heater Heater Al A2 Internal conductive coating Y2 X2 A3 X1 Y1			
Beam Current	Park of the state	(AuA)	20	A	DIMENSIONS See Drawing on Page 4				

NOTE

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

TESTS

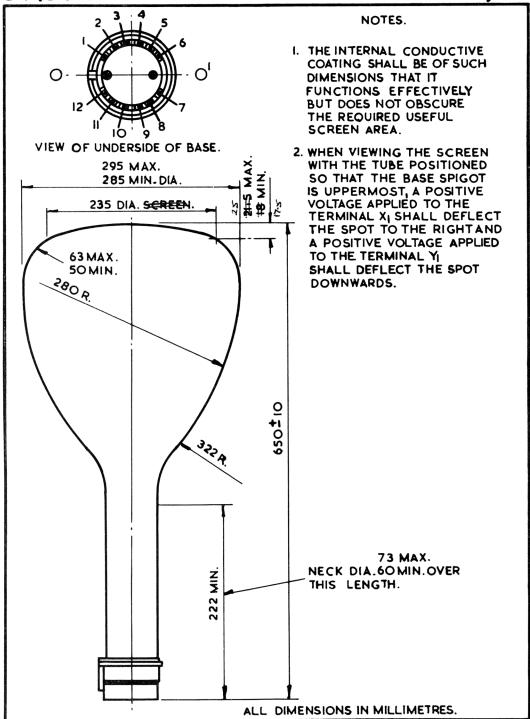
To be performed in addition to those applicable in KlOOl

		T	est Condi	tions		Test		Limits		No.	Note
<u>_</u>								Min.	Max.	Tested	Moce
а	Sec	∍ K100	1 /5 A•13			CAPACITANCES (pr 1. Each X- or Y- plate to all oth electrodes. 2. Grid to all other electrodes 3. One X to one Y-plate.	er	-	20 25 10	%(10) %(10) %(10)	
	Vh	Va3 (kV)	Va2 (kv)	Val (kV)	Vg					-	
Ъ	4	0	0	0	0	Ih	(A)	0.8	1.3	100%	
0	4	6	Adjusted for op- timum focus	1.8	Adjust to give cut-off	Vg Value to be note	(V) d.	- 30	-100	100%	
a	4 Vg out	6 adjus	ditto ted to give f 0.025 ca	1.8 re a l	ight on a	(1) Vg (2) Change in Vg value noted in		-3	-	100%	
1	clo	se ra	ster.			Test (c)	(v)	-	40	100%	
e	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 shall be measured at the centre of the trace.					(1) Line width (2) Va2	(mm) (V)	- 800	9.8 1800	100%	1
	to (d.	the value.	he grid sh ly with am alue obtai om Tp = 10 = 100 c/s	plitu ned i O <i>j</i> use	de equal n Test						
f	4	6 See	Any con- venient value Kl001/5A	1.8 3.2.	-100	GRID INSULATION 1. Leakage current 2. Increase in	(uA)		10	100%	
	Resistor = 10 megohms					võltmeter reading		-	100%	100%	
g	4	6	Adjusted for optimum focus	1.8	Any con- venient value	DEFLECTION SENSITIVITIES 1. X-plate (1)	mm√v)	1090 Va3	1660 Va3	100%	
						2. Y-plate (1	mm/v)	1000 Va3	1600 Va3	100%	

Test Conditions			Test	Limits		No.	Nata				
			1680	Min.	Max.	Tested	Note				
	Vh	Vaj (kV)	Va2 (kV)	Val (kV)	Vg						
h	4	6	As for Test (g)	1.8	Any con- venient value	Deviation of spot from centre of screen (mm)	-	25	100%		
J	4	6	As for Test (c)	1.8	Any con- venient value	USEFUL SCREEN AREA X-deflection (mm) Y-deflection (mm)	±1075 ±105 ±105 ±105	-	100%		3 Bonds 1
	Deflections measured from centre of screen.				om						
k	4	6	Any con- venient value	1.8.	As for Test (h)	Orientation of Y-axis of deflection	-	+ 100	100%		
	axd		asured re shown in								
m	4	6	As for Test (k)	1.8	As for Test (h)	Angle between X- and Y-axis	880	920	% (10)		
n	n Test to be performed using Test Set Type 331, or other approved method.					Afterglow (secs)	15	20 30	10%		Hmdt-1

NOTE

 Alternatively, the line width may be measured using a raster having a linear scan of 210 mm at 10 kg/s in the X direction and a 50 c/s scan in the Y direction. The Y-scan shall be expanded so that individual lines are spaced apart by at least one line width. Measurements shall be made at the centre of the screen. The grid need not be pulsed for this test but the grid voltage should be set to the value obtained in Test (d.2). Andt



CV1534/1/4

ELECTRONIC VALVE SPECIFICATIONS

In limits column. Delete: 10 min 20 max.

Delete: 21.5 max., Insert: 25 mm max. Delete: 18 min., Insert 17.5 mm min.

Delete the word "screen" from 235 mm dia dimension

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Page 2. Clause (e) line width In limits column, Delete: 0.8 max., Insert 0.5 max.

Page 3. Clause (j) Useful screen area

In limits column.

Against X - Deflection. Delete: + 105, Insert: + 107.5 mm min. Against Y - Deflection. Delete: + 105, Insert: + 65 mm min.

Clause (n) Afterglow

Outline Drawing

July, 1965.

Page 4.

AMENDMENT NO.1.

Insert: 15 min 30 max.

T.V.C. for R.R.E.

115 Ybs