	,				
Specification MOSA/CV1524	SECURITY				
Issue 5 Dated 18.5.5)_	Specification Valve				
To be read in conjunction with K1001	UNCLASSIFIED UNCLASSIFIED				

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		>	Indicat	es a change		
TYPE OF VALVE - Cathode Ray Tube TYPE OF DEFLECTION - Electrostatic; sym TYPE OF FOCUS - Electrostatic BULB - Internally coated with conductive coating SCREEN - BYL46 PROTOTYPE - VCR524	MARKING See K1001/4 BASE 12 Contact Key Base					
RATING	CONNECTIONS					
Heater Voltage Heater Current Maximum Fourth Anode Voltage Maximum Third Anode Voltage Maximum First Anode Voltage TYPICAL OPERATING CONDITIONS Fourth Anode Voltage Third Anode Voltage Second Anode Voltage First Anode Voltage X-Plate Sensitivity Y-Plate Sensitivity (mm/V)	4.0 1.1 6 4 2.5 4 2 150 2 .18	A A		Electrode G C H H A1 A2 Internal Coating (See Note E) Y2 X2 X2 X1 Y1 A4 SIDE CONTACT Snap Terminal		
			DIMENSIONS & CONNECTIONS See drawing on page 4.			

NOTES

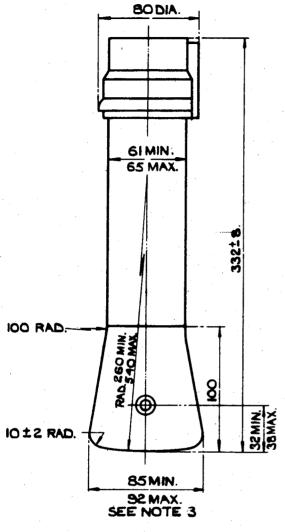
- A. The tube shall operate satisfactorily with Va1 = 2.5KV, Va3 = 3KV and Va4 = 6KV under conditions of reduced pressure equivalent to 6" of mercury at 15°C.
- B. The tube shall be adequately free from microphony.
- C. The tube shall be of the post deflector accelerated type, and the design shall be such that with Va1 = 2.5KV the focus shall be substantially unaffected by varying Va4 down to the value of Va3. A change of + 10% in Va2 shall not produce an appreciable change in cut-off voltage.
- D. The tube will normally be operated with A3 and conductive coating tied and if the manufacturer so desires these electrodes may be strapped internally with the connection omitted from contact marked "internal coating".
- E. The internal conductive coatings shall be of such dimensions that they function effectively but do not obscure the required useful screen.

CV1524 To be performed in addition to those applicable in K1001

			Test	Condit	ions		Test	Limi	ta Max.	No. Tested	Note
	See K1001/5A.13					1.Each X or Y plate to all other electrodes. 2.Grid to all other electrodes. 3.One X plate to one Y plate.					
_			Va3		Va1		applied symmetrically	I all	Cases.	 	
	(V)	(KV)	(KV)	(V)	(KV)	Vg (V)	}			ļ	Ì
ъ	4	0	0	0	0	0	Ih (A)	0.8	1.3	100%	
o	4	4	2	Adjust for op- timum focus	2	Adjust to cutoff	Vg value to be noted (V)	-	-80	100%	
đ	4	4	2	ditto	2	ditto	(1) Vg (V)	-1	-	100%	
	ou: vic	tput swed ype	of thre	to giv 0.04 can ough a (0AB/474) ter.	idela 2 f:	s when ilter	(2) Change in Vg from test (c) (V)	_	35	100%	
•	4	4	2	ditto	2	ditto	(1) Line width (mm)	-	1.0	100%	
	tin lin X & Y & lin the GRI Pos amp obt	me be lired lired me with the control of the contro	ase (engthetion of the great product)	n of 66 n and 70 n success to be m of the grid will from custom test do n test of ence being s respect	mm.) mm. saive least trac l be the (2) pul:	nom. and in the in the ly, the ured at one. The pulsed of with evalue the duration of the conseconds of the consecond of th		50	2 50	100%	
f	4	4	2	Any convenient		-80	(1) Leakage current (µA)	_	8	100%	
	Recommended method:- K1001/5A.3.2. Resistor = 10 megohms						(2)Increase in voltmeter reading	-	100%	100%	
g	4	4	2	ditto	2	Any convenient	DEFLECTION SENSI- TIVITIES (1) I plate (mm/V) (2) Y plate (mm/V)	0.16 0.21	0.20 0.27	5%(10) 5%(10)	
h	4	4	2	ditto	2	ditto	Deviation of spot from centre of screen (mm)	-	6	100%	

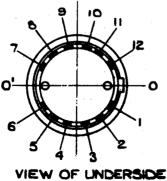
Test Conditions						ns	Test	Limita Min. Max.		No. Tested	Note
The Value Va						Any convenient value on a mm in		-	<u>+</u> 2	100%	
k	4	4	2	ditto	2	ditto	(1)Orientation of X-axis of deflection relative to 00' on drawing. (2)Orientation of the diameter through the centre of the snap terminal relative to 00'.	80°	100°	100%	
1	4	4	2	ditto	2	ditto	Angle between X and Y axis of deflection	88°	92 °	100%	

CV1524/5/3



NOTES

- I. THE INTERNAL CONDUCTIVE COATINGS SHALL BE OF SUCH DIMENSIONS THAT THEY FUNCTION EFFECTIVELY BUT DO NOT OBSCURE THE REQUIRED USEFUL SCREEN AREA.
- 2. WHEN VIEWING THE SCREEN WITH THE TUBE POSITIONED SUCH THAT THE SPIGOT IS UPPERMOST, A POSITIVE VOLTAGE APPLIED TO TERMINAL XI, SHALL DEFLECT THE SPOT TO THE LEFT, AND A POSITIVE VOLTAGE APPLIED TO TERMINAL YI, SHALL DEFLECT THE SPOT UPWARDS.
- 3. THIS DIA. SHALL INCLUDE ANY PROTRUSION DUE TO SIDE CONTACT.
- 4. WHEN VIEWING THE SCREEN UNDER THE SAME CONDITIONS AS IN NOTE 2' THE SNAP TERMINAL SHALL BE ON THE LEFT HAND SIDE OF THE TUBE



OF BASE.

ALL DIMENSIONS IN MILLIMETRES.