Specification MOSA/CV1522	SECURITY			
Issue 5 Dated 12.6.53 To be read in conjunction with K.1001, ignoring clause 5A.3.3	Specification UNCLASSIFIED	Velve UNCLASSIFIED		

<b></b>	Indicates	8.	change
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TYPE OF FOCUS - Electrostatic	- Electrostatic, suitable for aymmetrical deflection ctrostatic ernally coated with conductive ting 35			MARKING See K.1001/4 Additional marking:- Xó  p and 0 - See note D  BASE British Standard 9-pin			
RATING		Note		CONNECTIONS			
Heater Voltage	4.0		Pin.	Electrode			
Max. Final Anode Voltage  Plate Sensitivity I-Plate  Y-Plate  TYPICAL OPERATING CONDITIONS  Final Anode Voltage  (No. 1)	7) 1 100/ Va3 7) 100/ Va3 7) 800 7) 135 7) 800		1 2 3 4 5 6 7 8 9	X1 Y1 Second Anode Heater and cathode Heater Grid First and final anodes internally connected Y2 X2 Drawing on Page 3			

## NOTES

- A. The tube shall be capable of operating with first and final anode voltages of 900V at a pressure equivalent to 7.36" mercury at 15°C.
- B. The tube shall be of three-anode construction, and shall be adequately free from microphony
- G. The gun assembly shall be sufficiently robust to withstand considerable mechanical shocks without suffering displacement.
- D. The tube is required to be graded and marked according to the values of the deflection plate sensitivities. The tube marking shall be of the form XD where β and θ represent the grades of X and Y. plate sensitivities respectively as given in the table below.

MARKING	PLATE SENSITIVITY mm/Volt/Va3
A B C	70 - 80 inclusive Over 80 but not greater than 90 Over 90 but not greater than 100 Over 100 but not greater than 110 Over 110 but not greater than 120

When viewing the screen of the tube, with pin number 6 at the top,
a positive potential applied to pin 9 shall deflect the spot to
the right, and a positive potential applied to pin number 8 shall
deflect the spot upwards.

C	:V	15	22 To be per	forme	d in addi	TESTS tion to those applicable	in K	100 <del>1</del>	1	Page 2
	Test Conditions				Test	Limits Min. Max.		No. Tested	Note	
	a See K1001/5A.13			INTER-ELECTRODE  GAPACITANCES (pF)  1.Each I or each Y plate to all other electrodes. 2.Grid to all other electrodes. 3.One I plate to one Y plate.		-	15 20 5	T/A T/A T/A		
<u> </u>	Defl	ectio	n voltages sh	all b	e applied	symmetrically in all ca			r	
	٧h	Va3	Va2	Va1	٧g		0.85			
ъ	4	0	0	0	-	Ih (A)	0.95	1.25	5 <b>%</b> (10)	<u> </u>
o	4	800	Adjust for optimum focus	800	Adjust to give outoff	<b>v</b> g (ν)	-7	-20	100%	
đ	4 Adju .001	800 at Vg	ditto to give a li elas on a clo	ght o	Adjust utput of aster	<b>V</b> g (₹)	-1		100%	
	e 4 800 ditto 800 Adjust  DEFLECTION with a sine wave time base of 10 kg/s non. and a line length of 30 mm. in the X and Y dir- ections successively, the line width will be measured at the centre of the trace.		(1) Line width (mm) (2) Focussing voltage (V)		175	100% 5% (10)				
£	4	800	Any conven- ient value	800	-20	GRID INSULATION Leakage current Increase in voltmeter reading	-	4 100%	100%	
g	4	800	Adjust for optimum focus	800	Any convenient	DEFLECTION SERSIFIVITIES (1) X-plate (2) Y-plate	80/ Va3 80/ Va3	120/ Va3 120/ Va3	100%	
h	4	800	ditto	800	ditto	Deviation of spot from centre of Screen (mm)	-	3	100%	
j	oiro				USEFUL SCREEN AREA Diameter (mm)	30	-	100%		
k	4	800	ditto	800	ditto	Angle between X and Y axes of deflection	85°	950	100%	
•	Angl		ditto sured relativeing, page 3)	e to	ditto	Orientation of Y axis of deflection	-	10°	100%	
n	Resi Vg v		ditto 5 megohms i ter lead from working		h deflec-	Spot movement (mm)	-	0.5	5%(20)	

