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

Specification MOSA/CV1522

Issue 5 Dated 12.6.53

To be read in conjunction with K.1001, ignoring clause 5A.3.3

Specification Valve UNCLASSIFIED

Indicates a change

TYPE OF VALVE - Cathode Ray Tube TYPE OF DEFLECTION - Electrostatic, suit		MARKING See K.1001/4 Additional marking:- X6 \$\phi\$ and \$\theta\$ - See note D BASE British Standard 9-pin			
RATING		Note		CONNECTIONS	
Heater Voltage Heater Current	4.0		Pin	Electrode	
Max. Final Anode Voltage Plate Sensitivity I-Plate (mm/V) TYPICAL OPERATING CONDITIONS Final Anode Voltage Second Anode Voltage First Anode Voltage First Anode Voltage Beam Current (KV) (mm/V)	1		6 7 8 9	I1 Y1 Second Anode Heater and cathode Heater Grid First and final anodes internally connected Y2 X2 Drawing on Page 3	

notes

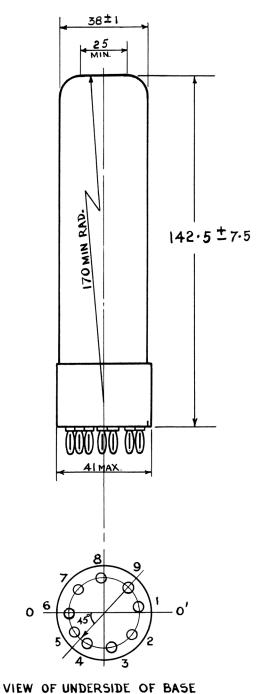
- A. The tube shall be capable of operating with first and final anode voltages of 900V at a pressure equivalent to 7.36" mercury at 15°C.
- B. The tube shall be of three-anode construction, and shall be adequately free from microphony
- G. The gun assembly shall be sufficiently robust to withstand considerable 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 $\frac{X\beta}{Y\Theta}$ 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
	70 - 80 inclusive
A	Over 80 but not greater than 90
В	Over 90 but not greater than 100
C	Over 100 but not greater than 110
D	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.

CV1522 To be performed in addition to these applicable in K1001

				M - A	Limits		No.		1		
		Test Conditions				Test	Min.	Max.	Tested	Note	
	See X1001/54.13				INTER-ELECTRODE CAPACITANCES (pf) 1.Each I or each I plate to all other electrodes. 2.Grid to all other electrodes. 3.One I plate to one	-	15 20	T/A T/A			
	_					Y plate.		5	T/A	<u></u>	-
	Defi	T			e applied	aymmetrically in all or	Lses			,	1
	Vh	Va3	Va2	Va1	∀g		0.85				Am
Ъ	4	0	0	0	-	Th (A)			5%(10)		-
0	4	800	Adjust for optimum feous	800	to give outoff	▼g (∀)	-7	-20	100%		
đ			ditto to give a li elas on a clo	ght o		∀g (∀)	-1		100%		
•	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 directions successively, the line width will be measured at the centre of the trace.				(1) Line width (mm) (2) Focusaing voltage (V)		175	100% 5% (10)	•	-	
£	4	800	Any conven- ient value	800	-20	GRID INSULATION Leakage current Increase in velt- meter reading	-	4 10 0%	100% 100%		
8	4	800	Adjust for optimum focus	800	Any con- venient value	DEFLECTION SERVITIVITIES (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%		
3	4 800 ditte 800 ditte Deflection to cover the stated circle centred on the centre of the screen				USEFUL SORREN AREA Diameter (mm)	30	-	100%			
k	4	800	ditto	800	ditto	Angle between X and Y axes of deflection	85°	950	100%		
m	Angl	800 mean (dray	ditto sured relativeing, page 3)		ditto	Orientation of I axis of deflection	-	10°	100%		
n	4 Rosi Vg v	800 ster -	ditto 5 megohms i ter lead from working	n eacl		Spot movement (mm)	-	0.5	5 ≸ (20)		



ALL DIMENSIONS IN MILLIMETERS

CV1522/5/3

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.1522 ISSUE 5 DATED 12.6.1953

AMENDMENT NO. 1

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Clause "b" Ih Limits: -

DELETE: MIN. 0.95 INSERT: MIN. 0.85

November, 1963 NP.152576 T.V.C. for R.A.E.

/AAS 14764