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

VALVE ELECTRONIC CV2205

MADETEN

Specification MOSA/CV2205	SECURITY			
Issue 2. Dated 13.3.553. To be read in conjunction with K-1001/5A	Specification UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED		
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Indicates a change

TYPE OF VALVE - Cathode Ray Tube TYPE OF DEFLECTION - Electrostatic su symmetrical defl - Electrostatic - Internally coate conductive coati SCREEN - EB1 - VCEX.131	See K1001/4 BASE British Standard 9-pin				
<u>rating</u>	Note	CONNECTIONS			
Heater Voltage (V) Heater Current (A) Max. Final Anode Voltage (kV) Plate Sensitivity X-plate (mm/V) Y-plate (mm/V) TYPICAL OPERATING CONDITIONS Final Anode Voltage (V) First Anode Voltage (V) Beam Current (MA)	4.0 1.0 1.0 1.0 Va3 100 Va3 800 2-4	A	Pin 1 2 3 4 5 6 7 8 9	Electrode X1 Y1 Second Anode Heater and Cathode Heater Grid First and final Anodes internally connected Y2 X2	

NOTES

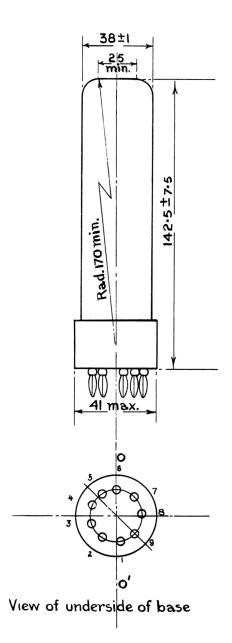
- A. The tube shall be capable of operating with first and final anode voltages of 900 V at a pressure equivalent to 7.36° mercury at 15°C.
- B. The tube shall be of three-enode construction, and shall be adequately free from microphony.
- C. The gun assembly shall be sufficiently robust to with stand considerable mechanical shocks without suffering displacement.
- D. Viewing the screen of the tube, with pin number 6 at the top as shown in plan view of the underside of base (see drawing on Page 4) a positive potential applied to pin number 9 shall deflect the spot to the right.

CV2205
To be performed in addition to those applicable in K.1001.

	Test Conditions					Test		Limits		No.	Note
	٧h	Va3	Va2	Val	٧g			Min.	Max.	Tested	
	I	Deflect	tion voltag	ges sha	ll be app	plied symmetr	ically	in all	Cases.		
a	See K.1001/5A.13					CAPACITANC 1. Each X Y plate all oth electro 2. Grid to other electro 3. One X-p te one Y-plate	or ead to er des. all des. late	1 1	15 20 5	T.A.	
> b	4.0	0	0	0	-	Ih	(A)	0.65	1.1	5%(10)	
٥	4.0	800	Adjusted for sptimum focus.	800	Adjust to give cut-eff	٧g	(₹)	-7	-20	100%	
d	intecand both	ensity delas (ditte ed te give of 0.0022 or close re	orthod	hromatic 5 mm in	2. Within range o voltage cut-off standar light o put the current increas centim	f grid from to d it- beam shall	At least 1 V nega- tive to ca- thede		100%	
	DEFI base leng dire line the GRII post ampl obts nomi	e of 10 gth of sections width centre The tively litude and re	With a side of keys nome. 30 mm in the successive of the transport of the	and a rely. asured race. be pull-off with the talk being	line nd Y The at sed th	1. Line w	idth (mm) (V)	50	1.0 175	100% 5% (10)	

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1				Mark Carrie				Limits		No.	
		Wh.	Test Conditions Vh Va3 Va2 Va1			Vg Test		Mine	Max	Tested	Note
	f	4.0	800		800	-20	CRID INSULATION Leakage current	æ.iii	4	100%	
		В	lesist	or - 5 me	gohma.		Increase in voltmeter reading.	-	100%	100%	
	g	4-0	800	Adjusted for optimum focus	800	Any con- venient value	DEFLECTION SENSITIVITIES 1. I-plate 2. I-plate	80 Va3 80 Va3	120 Va3 120 Va3	100%	
	h	4.0	800	ditto	800	ditto	Deviation of spot from centre of the screen (nm)	Va3	Va3	100%	
→	j	4.0 800 ditto 800 Deflection to cover the stated circle centred on the centre of the screen			USEFUL SCREEN AREA Diameter (mm)	30	•	100%			
->	k	4-0	800	ditto	800	ditto	Angle between X and Y axes of deflection	85°	95 °	100%	
→	12.	4.0	800	ditto	800	ditto	Orientation of Y axis of deflection. Angle measured relative to axis O-O' shown on drawing on Page 4	•	±10°	100%	



ALL DIMENSIONS IN MILLIMETRES

ELECTRONIC VALVE STECIFICATIONS

SPECIFICATION CV. 2205 ISSUE 2 DATED 13-3-1953

AMENDMENT NO.1.

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Clause "b" Ih Limits:-

DELETE MIN. 0.9 INSERT MIN. 0.85

November, 1963. NP.152581. T.V.C.for R.A.E.

LAL