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MINISTRY OF AIRCRAFT PRODUCTION (D.C.D.)

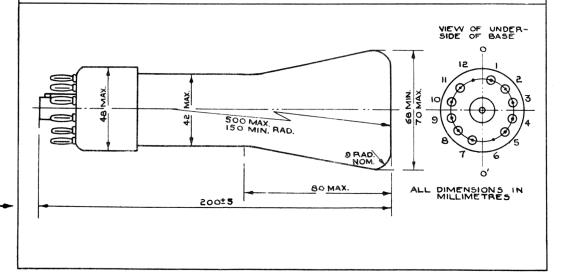
CATHODE RAY TUBE TYPE

VCR525

Specification MAP/CV1525/Issue 2. Dated 21. 7. 45. To be read in conjunction with K1003.	Specification Tube RESTRICTED RESTRICTED				
TYPE OF DEPLECTION - Electrostatic suit symmetrical deflection BULB - Internally coated coating. SCREEN - Afterglow (GGM27 of	MARKING VCR525 CV1525 BASE 12 pin spigot				
RATING			CONNECTIONS Pin Electrode		
Heater Voltage (V) Heater Current (A) Max. Final Anode Voltage (kV) I plate sensitivity (mm/V) Y plate sensitivity (mm/V) Typical Operating Conditions Third Anode Voltage (V) Second Anode Voltage (V) Beam Current (µA)	4.0 1.1 1.5 170/va3 170/va3 800 135 3	A	1 2 3 4 5 6 7 8 9 10 11	G G H H A2 Pin omitted Y2 X2 A3 X1 Y1 Pin omitted	

NOTES

- A:- The tube shall be capable of operating satisfactorily under conditions of reduced pressure equivalent to 6" of mercury at 15°C.
- B:- The tube shall be adequately free from microphony.
- C:- Viewing the screen of the tube with the key of the base uppermost, a positive potential applied to pin X₂ shall deflect the spot to the right and a positive potential applied to pin Y₂ shall deflect the spot downwards.
- D:- The internal conductive coating shall be of such dimensions that it functions effectively but does not obscure the useful screen area.





TESTS To be performed in addition to those applicable in K1003

Clause	Test Conditions					_	Limits		No.
	v _h	Va ₃	Va ₂	Va ₁	ν _g	Test	Min.	Max.	Tested
	Deflection	voltage	s shall be a	pplied a	symmetrically	in all cases.			
(a)						INTER-ELECTRODE CAPACITANCES (pF) 1. Each X or Y plate to all other electrodes. 2. Grid to all other electrodes. 3. I, to Y, Mate. 4. I, to Y, plate 5. I, to Y, plate 6. I, to Y, plate 6. I, to Y, plate	11111	15 20 3 3 2 2	T/A T/A 0.5%(5) 0.5%(5) 0.5%(5) 0.5%(5)
(b)	4.0	0	0	0	0	Ih (A) Andt.	0.85	1.25	5%(10)
(0)	4.0	800	Adjust for optimum focus.	800	Adjust	1. Line Width	Not greater than stan- dard tube.		100≸
	that of a	standa	s a spot bril rd tube on a nd Y direction	line of	length of	2. Va ₂ (♥)	50	175	% (10)
(4)			ditto e a light out sed raster	800 put of	ditto 0.001	Vg(V)	To be at least 1V (-) we to Cathode		100%
(0)	4.0	800	ditto	800	Adjust to cut off.	Vg(V)	-10	-20	100%
(f)	4.0	800	Any con- venient value	800	-20	GRID INSULATION 1. Leakage Current (µA) 2. Increase in voltmeter reading	-	4 100%	100%
	Recommended method: - K1003/5.4.2. Resistor = 5 megohms					VOI SEE TOURING			
(g)	4.0	800	Adjust for opti-	800	Any con- venient value	DEFLECTION SENSITIV- ITIES 1. X - plate (mm/V) 2. Y - plate (mm/V)	145/ra3 145/ra3	195 _{/Va3}	5%(10) 5%(10)
(h)	4.0	800	ditto	800	ditto	Deviation of spot from centre of screen.		5	100%
(1)	4.0 800 ditto Deflections to cover stated ci centre of screen.		800 ditto		USEFUL SCREEN AREA Diameter (mm)	55	-	100%	
(k)	4.0	800	ditto	800	ditto	1. Orientation of X axis of deflection relative to 00° on	222	0	
						drg. 2. Angle between X and Y axes	80°	100°	100%
(1)	Test to be earried out in Test Set 331					Afterglew (sees)	Result	1	

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.1525 ISSUE 2 DATED 21.7.1945

AMENDMENT NO. 1

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Clause "b" Ih Limits:-

DELETE: MIN. 0.95 INSERT: MIN. 0.85

November, 1963 NP.152577 T.V.C. for R.A.E.

/MB