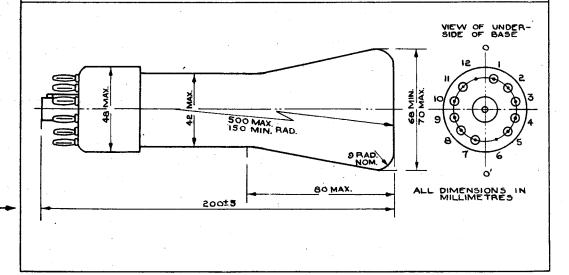
Type of Deplection Electrostatic suitable for symmetrical deflection.		O1 10 E								
Symmetrical deflection. MARKING VCR525 CV1525		Specification Tube RESTRICTED MARKING VCR525 CV1525 BASE				Dated 21. 7. 45.				
Note Pin Electrode						symmetrical deflection. - Internally coated with conductive coating.				
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) Boo Second Anode Voltage (V) Boo Second Anode Voltage (V) Boo Second Anode Voltage (V) Socond Anode Voltage (V)		IONS		Pin	Note					
12 Pin omitted			Y2 X2 A3 X1 Y1	2 3 4 5 6 7 8 9 10		1.1 1.5 170/va3 170/va3	r Current (A) Pinal Anode Voltage (kV) te sensitivity (mm/V) te sensitivity (mm/V) al Operating Conditions Anode Voltage (V) 1 Anode Voltage (V)	Heater Current Max. Final Anot X plate sensit; Y plate sensit; Typical Operat; Third Anode Vo Second Anode Vo		

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.



VCR525

TESTS To be performed in addition to those applicable in K1003

Clause	Test Conditions				Limits		No.		
	v _h	Va ₃	Va ₂	Va ₁	$v_{\rm g}$	Test	Min.	Max.	Tested
	Deflection	n voltage	s shall be a	pplied	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. X ₁ to Y ₁ plate. 4. Y ₂ to Y ₂ plate 5. X ₁ to Y ₂ plate 6. X ₂ to Y ₁ plate	1 1111	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	I _h (A)	0.83	1.25	5%(10)
(c)	4.0	800	Adjust for optimum focus.	800	Adjust	1. Line Width	Not go than s dard	stan-	100%
	that of	standa	e a spot bril rd tube on a nd Y direction	line of	length of	2. Va ₂ (V)	50	175	5%(10)
(a)			ditto a light out sed raster	800 put of	ditto	Vg(V)	To be at least 1V (-) we to Cathode		100≸
(e)	4.0	800	ditto	800	Adjust to cut off.	vg(v)	-10	-20	100%
(f)	4.0	800	Any convenient	800	-20	GRID INSULATION 1. Leakage Current (µA) 2. Increase in voltmeter reading	-	100%	10 0% 100%
	Recommend Resistor		od: - K1003/5. ohms	4.2.					
(g)	4.0	800	Adjust for opti-	800	Any con- venient value	DEPLECTION SENSITIV- ITIES 1. X - plate (mm/V) 2. Y - plate (mm/V)	145/va3 145/va3	195 _{/Va3}	%(10) 5%(10)
(h)	4.0	800	ditto	800	ditto	Deviation of spot from centre of screen.	•	5	100%
(1)	4.0 Deflection centre of		ditto	800 ircle c	ditto entred on	USEFUL SCREEN AREA Diameter (mm)	55	-	100%
(k)	4.0	800	ditto	800	ditto	. Orientation of X axis of deflection relative to OC on drg.	80°	100°	100%
						2. Angle between X and Y axes	85°	950	100%
(1)	Test to be carried out in Test Set 331					Afterglow (secs)	Result collat	s to be	10%