CV 1	5	1	5
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			W W	
Test Spec. No.	Date	Associated Drawings	Issued with:-	
D.C.D., W.T. 1353 Issue No. 2.	17。9。42。		D.C.D., W.T.1400	←

TYPE OF DEFLECTION: Electrostati BULB: Internally coated with a coating SCREEN: Blue or Green COMMERCIAL PROTOTYPE: M.X.1. of	MARKING VCR. 515 10E/13026					
RATING Filament Voltage (volts) Filament Current (amps) Maximum Second Anode Voltage (kV) Desirable Spot Size (mm) "X" Plate Sensitivity (mm/V) "Y" Plate Sensitivity (mm/V) Typical Operating Conditions Second Anode Voltage (kV) First Anode Voltage (volts)	4.0 1.05 1.2 1.0 480/Va2 400/Va2	Noted.	CONNEX	Type D. See No. W.T.274 D.C.D., W.T 1400 SIONS AND BAS TIONS See Page 4.	.68 of	←
CAPACITANCES pur Each "X" plate to all other electrodes Each "Y" plate to all other electrodes Grid to all other electrodes One "X" plate to one "Y" plate	9.0 5.5 9.5 0.005					

CV 1515

TESTS.

CATHODE RAY TUBE VCR515.

To be performed in addition to those applicable in D.C.D., W.T. 1400

	Test Conditions Vh Va2 Va1 Vg					Test	Limits		No.	
1	Cla	٧h	Va2	Va1	₹g		Min. Max.		Tested.	
	a.					Direct inter-elect- rode capacitances (µµF) 1. Each X plate to	_	15	5%(5)	
						all other electrodes 2. Each Y plate to	_	8	5%(5)	
						all other electrodes 3. Grid to all other	_	15	5%(5)	
						electrodes 4. One X plate to one Y plate.	-	0.2	5%(5)	
	b.	Cathode	50 volts	positive t	o heater	Heater-cathode current (microamps)	-	200	100%	
	o.	4.0	0	0	0	Heater-current (amps)	0.8	1.3	100%	
→	d.	to give that of length	e spot bri C standard	ptimum focu lliance equ tube on a the X and Y	al to line of	1. The line width shall not be greater than that of standard tube 2. Focusing voltage Val (volts)	180 250		100%	
→	••	Adjust to give that or voltage 60 mm, and in	1200 Val for o e spot bri f standard es to give 50 cycles the other		ection 60 mm by ection, lines	Grid Voltage Vg	with :	respect thode, to	100%	
	f.	4-0	1200 r as in te	as in test (d)	adjusted to give cut-off	1. Grid voltage Vg (volts) 2. Increase in negative value of Vg compared with value noted in test (e)	-25 -60 - 40		100% 100%	
→	g.	See Cla	1200 ended meth use 4.4.2 1 megohm.	as in test (d) nod:- of D.C.D.,	Within working range W.T. 1400	Grid Insulation Leakage current (microamps) Increase in volt- meter reading.	-	40 1009	100%	

REF. NO. 10E/13026.

TESTS (CONTD.).

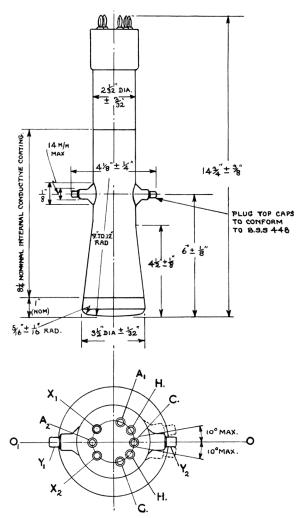
CATHODE RAY TUBE VCR515.

1	60						T		
	Sus	Test Conditions				Test	Limits		No.
	Clause	Vh	Va2	Va1	Vg		Min.	Max.	Tested
→	h.	4.0	1200	as in test (d)	Any convenient value	1. X deflection plate sensitivity (mm per volt) 2. Y deflection plate sensitivity (mm per volt)	410 Va2 340 Va2	550 Va2 460 Va2	10% (10) 10% (10)
\rightarrow	j.	4.0	1200	as in test (a)	any con- venient value	Deviation of spot from centre of screen (mm)	1	12	100%
\rightarrow	k•	4.0 1200 as in any contest (d) venient Deflections to cover the value stated circle centred on centre of screen			Useful screen area Diameter (mm)	70	1	100%	
\rightarrow	1.			as in test (d) slative to ax org. No. W.T.		Orientation of axes of deflect- ion Y axis	-10°	+10°	
→	m.	4.0	1200	as in test (d)	any con- venient value	Angle between X axis and Y axis	880	92°	100%
→	n.	4.0	1500	See clause D.C.D.,W.T	· · ·	Over Voltage Test			100%

Dec. No. D.C.D. WT. 1353.

page 4.

CATHODE RAY TUBE TYPE V.C.R. 515.



ENLARGED VIEW IN DIRECTION OF ARROW SHOWING BASE CONNECTIONS.

WHEN VIEWING THE SCREEN WITH THE TUBE POSITIONED SUCH THAT THE TERMINAL A2 IS DOWNWARDS, A POSITIVE VOLTAGE APPLIED TO THE TERMINAL X, SHALL DEFLECT THE SPOT TO THE RIGHT AND A POSITIVE VOLTAGE APPLIED TO THE TERMINAL Y, SHALL DEFLECT THE SPOT DOWNWARDS.