MoA Specification MOSA/CV1085	SECUR	TY	Andt.
Issue 6 Dated 26.11.1953	Specification	Valve	1
To be read in conjunction with K1001	UNCLASSIFIED	UNCLASSIFIED	

Indicates a change

TYPE OF VALVE - Cathode Ray T TYPE OF DEFLECTION - Electrostatic	MARKING					
BULB - Internally co	Sec K1001/4					
SCREEN - BYL 34 PROTOTYPE - VCR 85						
RATINGS				BASE B12D		
		Note		CONNECTIONS		
			Pin	Electrode		
Heater Voltage Heater Current Max. Final Anode Voltage Max. First Anode Veltage X-plate Sensitivity Mm/V Mm/V			1 2 3 4 5 6 7	Cathode Grid Heater Heater A1 A2 Internal Conductive		
TYPICAL OPERATING CONDITIONS Final Anode Voltage (kV) Second Anode Voltage (kV) First Anode Voltage (kV) Beam Current (µA)	6 1.6 1.8 20		8 9 10 11 12	Coating Y ₂ X ₂ A ₃ X ₁ Y ₁		
			DIMENSIONS See drawings on page 4			

CVI085

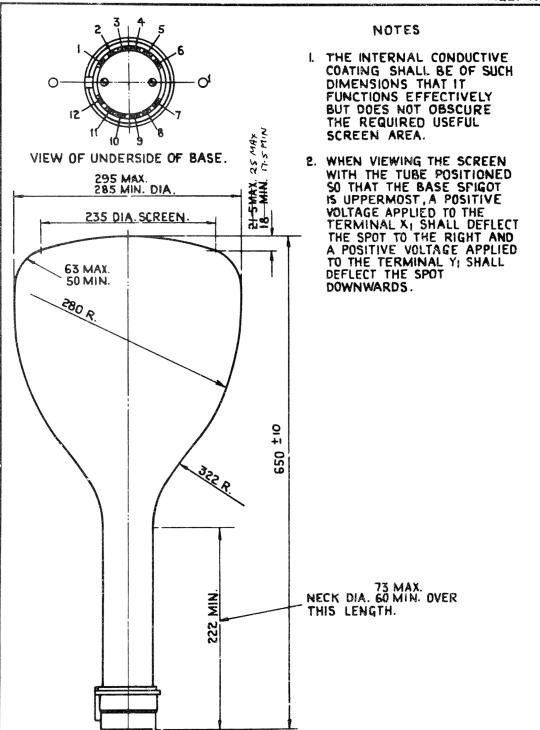
To be performed in addition to these applicable in K1001

Test Cenditien				an a		Test	Limits		No.	Note
		1000 0011411111111111111111111111111111		lest	Min.	Max.	Tested	Here		
8.	a See K1001/5A.13					CAPACITANCES (pF) (1) Each X or Y plate to all other electrodes (2) Grid to all other electrodes (3) One X to one Y plate	-	20 25 10	5%(10)	
	Vh	Va (kV)	Va2	Val	Vg					
ъ	4.0	0	0	0	0	Ih (A)	0.8	1.3	100%	
c	4.0	6.0	Adjusted fer opti- mum fecus	1.8	Adjust ed to give cut-	Vg (∀)	-30	-100	100%	
đ	d 4.0 6.0 As in 1.8 - Vg adjusted to give a light output of 0.02 candelas, through a C2 filter, on a close raster				(1) Vg (V) (2) Change in value of Vg frem test (c)	- 3	- 60	100%		
e	4.0 6.0 As in test (c) (d) With sinusoidal deflecting veltages to give a 210mm. line at a frequency of 50 cps. and Duty Ratio = 1. Measurements to be made in X and Y deflection directions successively.				(1) Line width (mm) (2) Va2 (V)		1.3	100%		
f	See	mmend KlO	As in test (c) ded method : 01/5A.3.2. = 10MΩ	1.8	-100	GRID INSULATION Grid Leakage Current (µA) Increase in volt- meter reading		10 100%	100%	
g	4.0	6.0	As in test (c)	1.8	Any con- veni- ent value	DEFLECTION SENSITIVITIES X-plate (mm/V) Y-plate (mm/V)	1090 Va3 1000 Va3	1660 Va3 1600 Va3	5% (10)	
h	4. 0	6.0	As in test (c)	1.8	Any con- veni- ent value	Deviation of spet from centre of screen (mm)	-	25	100%	

			Mark 0 am 3/4			Test	Lin	its	No.	
			Test Condit	ions		rest	Min. Max.		fex. Tested	
	۷h	Va (kV)	Va2	Val (kV)	Vg					
j	4.0	6.0	As in test (c)	1.8	Any con- veni- ent value	USEFUL SCREEN AREA X-deflection (mm) Y-deflection (mm)	<u>+</u> 105 <u>+</u> 105	-	100%	
		ectio creen	ns measured	rom	centre				,	
k	4.0	6.0	As in test (c)	1.8	Any con-veni-ent value	Orientation of Y axis of deflection	•	<u>+</u> 10°	100%	
			asured rela in drawing							
1	4.0	6.0	As in test (c)	1.8	Any con- veni- ent value	Angle between X and Y axes of deflection	85°	95 °	5%(10)	
m			As in test (c) n voltages		con- veni- ent value ve a	The screen shall not be worse for graininess than a standard pattern			100%	
	raster covering the useful screen area. The spot shall be defocussed such that separate lines shall not be discernible on the raster.									
n	4 6 As in test (c) Normal brightness and continuous spot movement over a rester of size 210 x 100 mm.				LIFE HOURS At the end of 1000 hours the tube shall meet the specification requirements			1%		
0	Tests to be performed using Test Set 331, with a close raster of convenient size.				AFTERGLOW (seconds) N3 Filter N4 Filter	20	30			

CV1085/6/3

Amat.



ALL DIMENSIONS IN MILLIMETRES.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOSA/CV1085 ISSUE 6 DATED 26.11.1953

AMENDMENT NO. 1

- 1. Page 1. Top of Page
- (a) Amend the Specification Authority "MINISTRY OF SUPPLY D.L.R.D.(A)/R.A.E." to read "MINISTRY OF AVIATION D.L.R.D./R.A.E.".
 - (b) Amend the Specification Title "Specification MOSA/CV1085" to read "Specification MOA/CV1085".
- 2. Page 4. Outline Drawing

Amend the Chord Height of Screen dimensions of "Min 18" and "Max. 21.5" to read "Min. 17.5" and "Max. 25".

June 1965. T.V.C. for R.A.E.

N. 229663

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