CATHODE RAY TUBE



MINISTRY OF SUPPLY

Specification MOS/CV1382/Issue 1.	SECURITY		
Dated 27.11.45.	Specification	CONTRACTOR OF COLUMN TO SERVICE CO.	
To be read in conjunction with K1003.	Restricted	Restricted	

•		Indica	ates a change
8 C C	lectrostatic. nternally cated with raphite. The cating to be connected to a GN1 or GGN28	3•	MARKING See K1001/4.
RATING		Note	BASE 12 Pin Spigot
Heater Voltage Heater Current Max. Final Anode Volta X plate sensitivity Y plate sensitivity	(V) (A) (kV) (mm/V) (mm/V) (mm/V) Va3 (70 Va3		DIMENSIONS AND CONNECTIONS See Drawing on Page 4.
TYPICAL OPERATING COND			
First and Final Anode Voltage Second Anode Voltage Beam Current	(V) 450 (V) 70 (µA) 2		

NOTE

- This test The tube must be adequately free from microphony. to be covered by type approval.
- The focussing system should be preferably of the three electrode type.

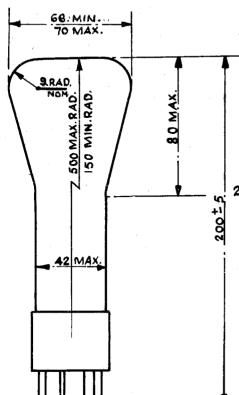
CVI382 To be performed in addition to those applicable in K1003.

७ ।	Test Conditions			tions			ts	No.
Claus		Va1	Va2	Vg	Tests		Max.	Test-
당	n	Vaz	. ~-	8	,			ed.
(a)	0	0	0		Capacitances (pf) 1. Each X or Y plate to all other electrodes. 2. Grid to all other electrodes. 3. Each X to each Y plate.	1	15 20 3	Type Ap- proval Test only
(b)	4	0	0	0	I _h (A)	•95	1.25	5% (5)
(c)	Cat		0 50v	0 , posi- ter.	Cathode-Heater Current. (µA)	-	100	1% (5)
(d)	4 Ad tin to br to ar to X	just mum f give illia that d tubace 1	Va2 Focus ance of of of lengt	for op- and Vg pot equal a stand- ing a h equal in the ections	1. Line width shall not be greater than that of a standard tube 2. Va2 (V) 3. Vg (to be noted) (V) 4. A change of + one volt in Vg to cause a perceptible increase in brightness, and no appreciable change of focus.	25 -2•5		100%
(e)	4 V ₀	450 adj		- for	V _g (V)		-15	1% (5)
(f)	4 De	450 flec	As in (d) tor p	0	Deflector Plate Current Total current flowing to all deflector plates. (µA)	-	5	100%
(g)) 4	450	As	Any con- venient	Deflection Sensitivities 1. X plate. (mm/V)	135 V _{a3}	205 Va3	5%
			(a)	va lue	2. Y plate. (mm/V)	135 Va3	205 Va3	(10)

(mantenace	·		-					_CV	1382
(h)	4	450	As in (d)	As in (g)	Deviation of spot from centre of screen.	(mm)	-	5	100%
(3)	4	450	As in (d)	As in (d)	Spot movement.	(mm)	-	. 4	
	co	nnectod	ed to	or plates ogether otential an 200v.					100,6
		low a					^.		
(k)	4	450	As in (d)	As in (g)	Angle between X and Y axes.		80°	100°	5% (10)
(1)	4	450	As in (d)	As in (g)	Useful Screen Area Radius DinneteR	(mm)	55	-	100%
(m)	4	1500		Clause of 03.	Over Voltage Test				100%
(n)	4	450	As in (d)	As in (d)	Life Test Life.	(hrs)	500	-	0.5% (3)
				cover					
		raste:							

40 x 40 mms.

ALL DIMENSIONS IN MILLIMETRES.



NOTES.

- I. VIEWING THE SCREEN WITH THE

 KEY ON 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.
- 2. THE INTERNAL CONDUCTIVE COATING SHALL BE OF SUCH DIMENSIONS THAT IT FUNCTIONS EFFECTIVELY BUT DOES NOT OBSCURE THE PEQUIRED USEFUL SCREEN AREA.

PIN.	ELECTRODE.		
1	CATHODE.		
2	GRID.		
3	HEATER.		
4	HEATER.		
5	2 ^{ND.} ANODE A2.		
7	PLATE ¥2		
8	PLATE X2		
9	3RD. ANODE A3		
10	PLATE XI		
_11	PLATE YI.		

023 4 5 0 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•
THESE TWO PINS	\
TO BE OMITTED.	_

PIN CONNECTIONS
VIEWED FROM
UNDERSIDE OF BASE.