## CATHODE RAY TUBE

# CV1382

## MINISTRY OF SUPPLY

Specification MOS/CV1382/Issue 1.	SECURITY		
Dated 27,11,45.	Specification	C.R.T.	
To be read in conjunction with K1003.	Restricted	Restricted	

#### Indicates a change

TYPE OF DEFIECTION: - Electrostate  BUIB: - Internally coated with graphite. It coating to connected to SCREEN: - GGN1 or GGN	MARKING See K1001/4.	
RATING	Note	<u>BASE</u> 12 Pin Spigot
Heater Voltage (V) Heater Current (A) Max. Final Anode Voltage (kV) X plate sensitivity (mm/V) Y plate sensitivity (rm/V)	1.1 1.5 170 Va3 170 Va3	DIMENSIONS AND CONNECTIONS  See Drawing on Page 4.
TYPICAL OPERATING CONDITIONS		
First and Final Anode (V) Voltage Second Anode Voltage (V) Beam Current (µA)	70 2	

## NOTE

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

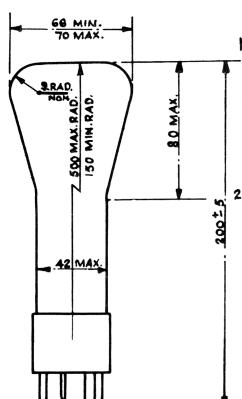
To be performed in addition to those applicable in K1003.

0	Test Conditions   Limits No.								
Claus	$\overline{\mathtt{v}_{\mathtt{h}}}$	Val	Va2	TOTORS	Tests			Max.	Test-
15	'h	Van Van	Vaz	Vg	l	16363	mill.	Max.	ed.
-	_				0		+	<u> </u>	eu.
(a)	0	0	0	О		pacitances (pf)	1	١	_
					11.	Each X or Y plate to	_	15	Type Ap-
					l	all other electrodes.			proval
					2.	Grid to all other	-	20	Test
1 1					1	electrodes.		l	only
					3.	Each X to each Y plate		3	
(b)	4	0	0	0	,	I <sub>h</sub> (A)	•95	1.25	5,6
Ľ	·				Ì				(5)
(c)	4	0	0	0		Cathode-Heater			
1 1		thode	50 <b>v</b>	posi-	l	Current. (µA)	-	100	1%
			heat		l	.,,			1% (5)
(a)		450		-	11.	Line width shall not	1		
1,-1				for op-	1	be greater than that	1		
1 1	tir	num f	ocus 'ocus	and V <sub>o</sub>	1	of a standard tube.	1	Ì	
1 1			a sp		2	$V_{a2}$ (V)	25	100	100%
				equal	3	$V_g$ (to be noted) $\langle V \rangle$	-2.5	-	100,0
					۲.	A change of + one	1-2.7	_	
	to that of a stand- ard tube using a		۲.	volt in Vg to cause a	1				
	trace length equal		•	perceptible increase	1	1			
							1	1	
1 1	to 110 mm. in the		1	in brightness, and no	1	l			
1 1	X and Y directions successively.		1	appreciable change of	1	l			
1				7•	-	focus.	-		
(e)	4	450	AS	-	l	$v_g$ (v)	-	<b>-</b> 15	
			in		l				
			(d)						
	Vg adjusted for						1		1%
visual cut-off.									1% (5)
(f)	4	450	ÀS	0	Def	lector Plate Current			
			in			Total current flowing			
			(a)		} '	to all deflector			
	Det	flect	or p	la <b>t</b> e <b>s</b>	1	plates. (µA)	-	5	100%
			450 v						·
(g)	4	450	As		Def	lection Sensitivities		205	
1,0,1			in	venient		X plate. (mm/V)	135	205	5%
			(d)	va lue			$v_{a3}$	Vaz	
			(-)		2.	Y plate. (mm/V)	135	205	(10)
					-•	(mily v)	Va3	Va3	(10)
						· · · · · · · · · · · · · · · · · ·	Va3	Va3	

Page 3.

Pag	ر و 							CV	1382
(h)	4	450	As	As in	Deviation of spot	;			
			in (d)	(g)	from centre of	( )		_	1.001
(3)	-	1.50	designation.	A = 2	screen.	(mm)	-	5	100%
(5)	4	450	As	As in	Spot movement.	(mm)	-	4	1 1
			in (d)	(a)					1
	Al	l def	• /	or plates					100%
	CO	nnecte	ed to	ogether					1 .55,5
				otential	1				
	no	t more	e the	an 200v.					
	be	low a	3•						
(k)	4	450	As	As in	Angle between X				
			in (d)	(g)	and Y axes.		80°	100°	5% (10)
(1)	4	450	As	As in	Useful Screen Area				
			in (d)	(g)	Radius	(mm)	55	-	100%
(m)	4	1500		Clause	Over Voltage Test				100%
1				of					100,0
			K100						
(n)	4	450	As	As in	Life Test				
			in	(d)	Life.	(hrs)	500	_	0.5% (3)
	_		(a)			ŕ			(3)
Deflection to cover									
a raster of area									
80 x 80 mms.									





# 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 REQUIRED USEFUL SCREEN AREA.

PIN.	ELECTRODE.
1	CATHODE.
2	GRID.
3	HEATER.
4	HEATER.
5	2 <sup>ND.</sup> ANODE A2.
7	PLATE Y2
8	PLATE X2
9	3 <sup>RD.</sup> ANODE AS
10	PLATE XI
11	PLATE YI

0 2 3 4 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
THESE TWO PINS	
TO BE OMITTED.	,

VIEWED FROM UNDERSIDE OF BASE.

# AMENDMENT TO CV. 1382 ISSUE 1

Page 2 Clause (d) for 110 mms. read 55 mms.

Page 3 Clause (1) for Radius read Diameter

Page 3 Clause (n) for 80 x 80 mms. read 40 x 40 mms.

N. 165653