## GATHODE RAY TURE

## CV1397

Specification MOS/CV1397/Issue 1. SECURITY							
Dated 28.1.46.	Specification C.R.T.						
To be read in conjunction with K1003.	Restricted Restricted						

the contract of the contract o	> Indicates	a change
TYPE OF DEFLECTION: - Electrost: metrical e metrical e Internall; with condi coating. SCREEN: - Afterglow	deflection. y coated uctive	MARKING See K1001/4.
RATING	Note	BASE 12 contact key
Heater voltage Heater current Max. final anode voltage Max. first anode voltage Desirable spot size X plate sensitivity  Y plate sensitivity  Max. beam current  (V)  (A)  (KV)  (MV)  (mm/V)	VA3	DIMENSIONS AND CONNECTIONS See Drawing on Page 4.
TYPICAL OPERATING CONDITIONS	endelmo composito de la compos	
Final anode voltage (kV) Second anode voltage (V) First anode voltage (kV)	5.0 870 2.0	

## NOTE

- A:- The focussing system shall be of the three electrode type.

  The construction shall be such that there is no perceptible change of brightness with adjustment of focussing voltage.
- B:- The tube shall be adequately free from microphony.

## TESTS

To be performed in addition to those applicable in K1003.

8		lest		diti			Lim	No.	
Clause	$\begin{bmatrix} \overline{q} & V_h & V_a & V_{a2} & V_{a1} & V_g \\ \overline{q} & \overline{k} & V_{a2} & \overline{k} & V_{a3} \end{bmatrix}$		Vg	Test	Min.	Max.	Test-		
5		kŸ		kV					ed.
a	>	-				INTER ELECTRODE CAPACI- TANCES (pf) 1. Each X or Y plate to all other electrodes.		25	5%(10)
					. /	2. Grid to all other electrodes.	-	25	5%(10)
Ŀ	TANKS OF THE PARTY OF					3. One X to one Y plate.	-	5	5%(10)
р	4.0	0	0	0	0	$I_h$ (A)	0.7	1.3	100%
C			just ed.			1. The line width shall not be greater than that of a standard		de d'anni materiale de l'algorite d'anni filonomie	
	focu	ıs ar t bri	nd V Illi	g to ance	optimum give a equal to ard tube	tube. 2. V <sub>a2</sub> 3. V <sub>g</sub> (V)	To b	1125 e at t 5v	100%
	on a leng	a lir gth 1	ne o: 130 : the	f efi mm. t X ai	fective to 650		-ve cath	to	
đ	4.0	5.0	As in (c)	2.0	Adjusted to give cut-off IBEAM 0.1 µA	2. Increase in -ve Vg compared with the value noted in	2550 2550	40 40	100% 100%
е	4.0		in (c)			GRID INSULATION			
	2. S	(1003	olau 3.	se 5.	.4.2 of Megohm	1. Leakage current (µA) 2. Increase in volt- , meter reading	-1119	12 100⁄4	100% 100%
f	4.0	5.0	As in (c)	2.0	Any convenient value	DEFLECTION SENSITIVITIES  1. X plate (mm/V)  2. Y plate (mm/V)	650 Va3 790 Va3	790 Va3 970 Va3	10%(10) 10%(10)

							- 9.5			·		
	g	4.0	5.0	As	2.0	Any con-	Ī	Deviation of sp	ot	-	10	100%
THE STATE OF THE S				in		venient	1	from centre of				
- Marie				(c)		value		screen	(max)	- Andrews		
	Ь	4.0	5.0		2.0	Any con-	USE	TUL BOREEN AREA	ere en	1	<u> </u>	
				in		venient	-		•			
gr-da-				(c)		value	I	Diameter	(mm)	130	-	100%
	1	Def	lect	ions	to	oover						
Carolina	.	sta	ted	circ	le c	entred		%				
L		on centre of screen										
I	1	400	5.0	As	2.0	Any con-		entation of axe	<u>S</u>			
1				in		venient	CONTRACTOR SALES	DEFLECTION	,			
			5	(c)		value	1. 2	K axis		800	100º	100%
1						rela-						
			e to				2. 1	I axis		-109	+100	100%
		shown on drawing										
	K	4.0	5.0	-	2.0	Any con-	§ .	The screen shal				100%
						venient		oe worse for gr	/			
1		1				value		iness and non-u				
1		Deflection voltages to						ity than a sta				
A STATE OF THE PARTY OF THE PAR		-				overing		tube, or an app	roved			
		a circular area of dia-						pattern.				
	1	meter 130 mm. The										
						efocussed		:				
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Į		number of lines used,										and the second s
	1	separate lines shall not										Andreas Control of the Control of th
1	- 4) - 4	be discernible in the						er en			- Sac	. Delance
-	4	raster 4.0 5.0 As   2.0 Amy con-										-
	+	4. U	2.0		2.0	Amay con-		he afterglow o			With Colonial Colonia Colonial Colonial	Type
	-	1		in		cenient		cteristic shal			Month	app-
	İ			(c)		value		satisfactory wh	en.		The state of the s	roval
								examined by an		2		in a contract of the contract
-	ᆜ	7.	5.0	A	2 4	As in		pproved method	•			
	Ш	40 4	٠.٠	AS in	4. V	(c)		TEST		at the same of the	· ·	· · · · · · · · · · · · · · · · · · ·
1	1	l		(c)	1		T.	Life (	hours)	500	and a second	1%
		Def	lect		to	OVAT	ā.	40.5	mont 2)	J~~		1/0
		Deflections to cover a raster of area								GE EXTENSION	the allegation	
	- 1	130mm x 130mm								1921 - GC0040		
<b>1</b>					nasta Desidentia				-			Total and the second se

