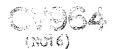
VALVE ELECTRONIC



ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV964/Issue 7.

Dated: - 12/6/47.

To be read in conjunction with K1003.

Restricted Unclassified

TYPE OF VALVE:- Ca TYPE OF DEFLECTION:- El TYPE OF FOCUS:- El BULB:- Gl	HARKING See K1003/7			
SCREEN: - GG B PROTOTYPE: - "V	coated with con- ductive coating. GGN35. (Green; Willemite; no appreciable after-glow after 100 milliseconds.) "VCRX22". Tube similar to VCR139A but has better quality focus and focus			Electrode Cathode Modulator Heater Heater 2nd Anode (A2) Pin omitted Plate Y2 Plate X2 3rd Anode (A3) and graphite
uniformity. RATING Note			10 11 12	Plate Xi Plate Yi Pin cmitted
Heater Voltage (V) Heater Current (A) Max. ist and 3rd (kV) Anode Voltage Average Working (V) 2nd Anode Voltage Working Beam (µA) Current	4.0 1.1 1.5 250 3 to 5	A		DIMENSIONS See Fig. 1, Page 4. PACKING See K1003/8 K1005

NOTES

- A. At Va3 = 1.5 kV.
- B. The design of the tube is to be such that the focus ratio is substantially independent of beam current. This feature will be checked at Type Approval.

TESTS

To be performed in addition to those applicable in K1003.

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	Test Conditions Test			Maz.	Tested				
a		Capacitances (pF.) (i) Each X or Y plate to all		15	T-A-				
		other electrodes. (ii) Mod. to all other		20	T-A-				
And the state of t		electrodes. (iii) Either X- plate to either Y- plate.	-	. 3	0 .5% (5)				
For all tests given below Vh = 4.0 V.									
b		Ih (A)	0.95	1.25	100% or S				
C	(i) Va3 = 1.5 kV. or (ii) Va3 = 800 V. See K1003/5.9	V mod. for cut off (i) (V) (ii) (V)	-1 <i>3</i> -7	-3 8 -20	100%				
đ	(i) Va3 = 1.5 kV. or (ii) Va3 = 800 V. in both cases Vmod = -1 V	<u>I beam</u> (i) (μA) (ii) (μA)	15 10	-	100%				
•	(i) Va3 = 1.5 kV. or (ii) Va3 = 800 V. Tube operated with an approved raster, or 2 lines at right angles.	Useful screen (mm) diameter.	55		100%				
Î	As test 'e'.	(i) Va2 for opti- mum focus (V) (ii) Relative focus (V) Ower the whole scan area, this shall	150 80	<i>3</i> 39 178	10% 10%				
		not be worse than to of a standard tubed	nat						

TESTS (Contd.)

,			Limits		No.
	Test Conditions	Test	Min.	Max.	Tested
g	(i) Va3 = 1.5 kV. or (ii) Va3 = 800V. See K1003/5.4.2.	Modulator electrode insultation (MA)	5	-	100%
h	As test 'g'.	X and Y plate sensitivities (mm/V)	145 Va3	195 Va3	100%
j	As test 'g' See K1003/5.10.	Centring deviation (mm)	•	5	100%
k		Angle between X- and Y-plate axes.	85°	95 ⁰	1%
1		Angle between Y- plate axis and base diameter passing thro' centre of base spigot.	•	10 ⁰	100%

