

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

(NC6)

Specification AD/CV955/Issue 5.	SECURITY		
Dated 10.4.52. To be read in conjunction with K1001 (1952)	Speca. Unclassified	Valve Unclassified	

	_	→ Indi	cates	a change				
TYPE OF VALVE:-	Cathode Ray Tube			MARKING				
TYPE OF DEFLECTION: - Electrostatic, and symmetrical			See K1001/4.1.					
			BASE					
TYPE OF FOCUS:-	Electrostatic			Standard	andard 12-contact			
BULB:-	Internally coated with			Contact	Electrode			
om _{enger} of the contract of t	conducting mate			1	Mod.			
				2	No connection			
SCREEN: -	GG5			3	H.C.			
Constitution and an artist and a second				4	H			
PROTOTYPE:-	4409			5	A1			
				3 4 5 6 7	A2			
RATING				8	Coating			
			Note	9	No connection			
Heater Veltage	(♥)	4.0		10	A3			
Heater Current	(A)	1		11	No connection			
Max. Vai	(kV)	2.0		12	X4			
Max. Va3	(k♥)	4.0	A	Side	254			
X-plate sensitivity	(■■/▼)	320 Va3		Conn.	Y2) See page 3 and Note C.			
Y-plate sensitivity	(mm/V)	480 Va3		DIMENSIONS				
				See Drawing, Page 3.				
TYPICAL OPERATING	terve princip referendementaliste de la company de la comp							
Va1	(<u>v</u>)	1450		PACKAGING				
Va2 apprex.	(A)	600		TADARGING				
Va3	(k♥)	3.0		See K1005.				
Ib approx.	(ALA)	10						
		Contraction of the Contraction o	Approvide Account for Securities	-				

NOTES

- A. The tube shall be of three anode construction.
- B. Focus quality measured as follows:- With Va3 = 3000 V and Va2 and Vg adjusted to give an optimum-focus raster of convenient size and of light-output 0.1 candela, the positive grid drive from Vg (blackout) is noted (=x). Then, with the beam just "blacked-out", a nominally square wave positive pulse of peak value x volts and of width 100 Auscs and repetition frequency 100 c.p.s. applied between cathode and grid, and with the high frequency time base set to produce a line 40 mms long in both X and Y axes successively (with no adjustment of focus between measurements in the two axes), the line width as measured at the centre of the trace must not exceed 1.5 mm.
- C. The Y Plate side contacts may be either flush-type or projecting type (as shown) provided that the tubes with flush type contacts are supplied with appropriate adaptors so that no modification will be required to existing equipment.

CV955

TESTS

To be performed in addition to those applicable in K1001 (1952.)

		Test Conditions					Test	Limits		No.
	_	-			Principle of the State of the S	(7)	Min.	Max.	Tested	
	8.		See K1001/App.3.		Capacitances (pF.)			6		
						Each deflecter plate to all other electrodes including graphite screen	_	15	per week	
→		V h (V)	∇g (∀)	Va1 (V)	Va2 (V)	Va 3 (V)				
	Ъ	4.0					Ih (A)		1.2	100%
	С	4.0		1450	Ad- justed	3000	i. ∀g	To be at least 1V- VE to		
\rightarrow				and Va2 to give a				cathode.		
		light output of 0.1 candela from an optimum-focus raster of					ii. Va2 (V)	450	750	100%
		convenient size.					iii. Line width to be measured as desired in Note B.	Not to exceed 1.5 mm at the centre		
	đ	4.0	Ad- justed	1450	As test	3000				
			See	K1001/	5A.10.		Vg for blackout (V)	<u> </u>	-90	100%
	•	4.0		1450	As test	3000				
-			Vg adjusted for light output of 0.1 candela.		Change in Vg from test 'd' (V)		25	100%		
	f	4.0		1450	As test	3000	Sensitivities (mm/V)			
		Sensitivities measured		i. X-plates	240	-	5% (1)			
							ii. Y-plates	240 Va3 350 Va3	-	(1)
	g	4.0		1450	As test	3000	Deviation of spot from			1007
			See K1001/5A.11.1.			centre of screen (mm)	ļ-	5	100%	
	h	4.0		1450	As test	3000				
		Deflection voltages applied					Angle between Y-axis and diameter of base passing thro' spigot	_	15°	100%
→	j	See K1001/5A.3.2.					Grid Insulation Resistance (M. ()	5	-	100%

