# Specification CV-1868 - Issue 1 - dated 2-7-57.

### Amendment No. 1

## Page 4

Amend diameter of the neck of the tube shown in the drawing to read:-

32.5 mm Min. 35.5 mm Max.

instead of 35 + 1 mm.

July 1957

T.V.C. for A.S.R.E.

N88360.

## VALVE RISCTRONIC CV 868

#### ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV1868 Issue No. 1
Dated: 5.1.55
To be read in conjunction with K1001
SECURITY
Specification
Valve
Unclassified

TIPE OF VALUE: TIPE OF DEFLECTION:	Cathode Ray Tube Magnetic Magnetic 008 with aluminium backing			<u>MARKTHC</u> See £1001/4		
TYPE OF FOCUS: SCREEN:				BAST B8 - 0		
BUIB:	Glass. Internally coated with conductive coating.					
SCREEN DIAMSTER: PROTOTYPES:	5 inches.  Mullard - MF13  Cinema Television -  5703A			(See B.S. 448)		
<u>RATING</u>			Note	Pin	CONDUCTIONS Electrode	
Heater Voltage Heater Current  Max. First Anode Vo Max. Second Anode V Max. Heater-Cathode (heater negative t	oltage (kV) Voltage (V)	6.3 0.3 0.6 500 11 150	4 4 4	1 2 3 4 5 6 7 8 SC	H A1 G C H A2 SIDE CONTACT - CT7 B.S.448, Sect. 6/1.7	
			DDEENSTORS See drawing, Page 4.			

#### NOTES

- A. Absolute Maximum Value.
- B. The focusaing requirements and the amount of deflection defocus will be shecked on the Type Approval samples.

  After Type Approval has been granted, the construction of the tubes must remain as in the Type Approved samples.
- C. The fluoride screen shall not contain beryllims.

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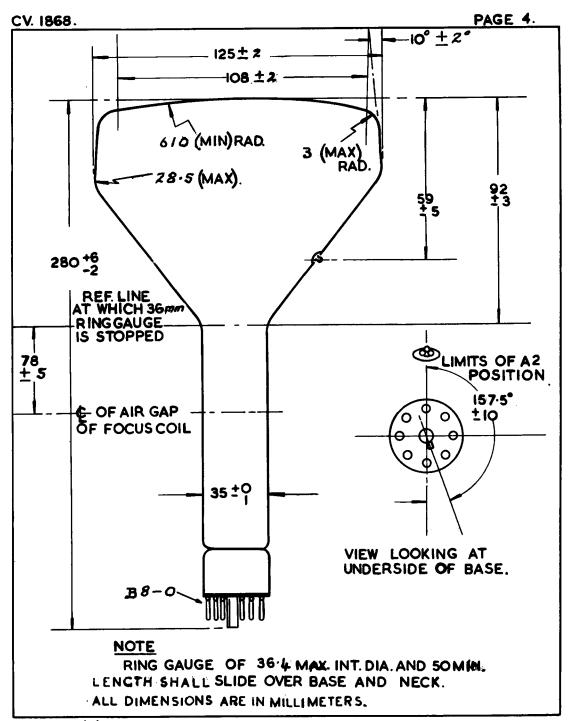
TESTS
To be performed in addition to those applicable in K1001

		Test Co	ndition	8		Idmits		No.	
	<b>Vh</b> ( <b>V</b> )	Va2 (kv)	VA1 (V)	<b>∀</b> g (₹)	Test	Min.	Max.	Tested	
		K1001/5A	•13	·	Capacitances (pF) Grid to all other electrodes Cathode to all other electrodes	1 1	10 10	5 <b>%</b> (20)	
Ъ	6.3	0	0	0	Ih (A)	0,28	0.65	100%	
o	6.3	7•0	450	Adjust to Cut Off	Out Off Negative Vg (V)	45	110	100%	
đ	6.3 7.0 450 Adjust Spot to be deflected off useable screen area or scammed. Adjust Vg for Ib = 30 MA.			i off or	Change in Vg from value found in test (c) (V)	-	28	100%	
•	Focus: Adjusted to optimum with centre of air gap of focus coil 78 mm from ref. line. (See drawing)  Deflection: A linear line scan of 10 m/s and a line length of 100 mm in the X and Y directions successively. Grid: To be pulsed positively from cut off, with amplitude equal to the value obtained in test (d), with pulse duration of 100 msecs. (nominal) and with repetition rate not exceeding 50 p.p.s.			gap of om ref.  (x)  (x)  (x)  (x)  (x)  (x)  (x)  (x			0.5	((1 <b>00</b> %)	
Î	6.3 7.0 450 Adjust  Vg adjusted so that light output is 0.08 candela from a linear raster 10 cms x 10 cms		Light Output Beam current for light output of 0.08 candela.		7•5	100%			
g	1 1	Jaing recently	ommend PK1001/	-110 ed /5A 3.2 resistor.	Grid Insulation (a) Leakage current (nA) (b) Increase in volt- meter reading.	-	11 100%	100% 100%	

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TESTS
To be performed in addition to those applicable in K1001

П	Test Conditions			15		limits		No.
	<b>Vh</b> ( <b>V</b> )	Va2 (kV)	Va1 (V)	∀g (∀)	Test	Min.	Maz.	Tested
h	6.3			- tween	Heater-Cathode Insulation Leakage current (nA)	•	150	100%
3	6.3	7.0	450	Adjust	Useful Screen Area Dismeter (mm)	108	-	100%
k	6.3	7•0	450	-do-	Spot Displacement Deviation of unfocussed spot from centre of screen.  (mm)	•	8	100%
1	6.3 7.0 450 -do- Vg to be adjusted to give a light output of 0.03 candela with an unfocussed linear raster of 65 mm x 65 mm.			give 03	Persistance Time taken from cessation of excitation for light output to fall to 0.5% of its initial value.  (secs)	120	-	5% (20)
يب					<del></del>		CV4768	77.74



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