VALVE ELECTRONIC CV248

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

- 1		1		
	Specification AD/CV248/Issue 7.	SEC		
	Dated: 8. 4. 54.	Specification Unclassified	<u>Valve</u> Unclassified	_
	To be read in conjunction with K1001.			

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TYPE OF VALVE: - Gas filled Photo-Electric Cell. CATHODE: - Caesium on silver or approved alternative.			MARKING See K1001/4, also Notes 'A' and 'B' below.			
ANODE: -	ANODE:- Frame or Rod type.			BASE		
ENVELOPE: -	/ELOPE: - Glass.			В4-		
PROTOTYPE:- GS16.			See K1001/AIV/D5.1.			
	RATING			Pin	Electrode	
Working Voltage	(▼) (∀)	140- 160 Wago	No te	1 2 3 4	Anode No connection No connection Cathode	
Win, Sensitivity (pA/lumen) 160				DDGN See Pa	SIONS AND CONNECTIONS go 3.	

NOTES

- In the working voltage is to be selected by the manufacturer, within the limits stated, and shall be such that the conditions of the tests on page 2 are fulfilled. It shall be a multiple of 5 and is to be clearly and permanently marked on each cell.
- B. The maximum voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated: it is <u>NOT</u> to be marked on the cell.

TESTS

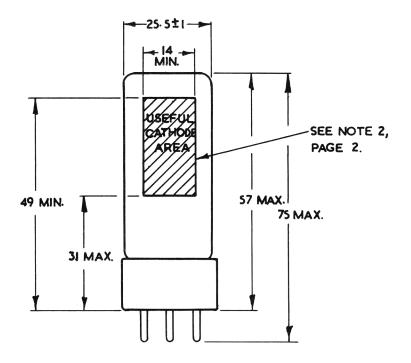
To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No.	
	Va (volts)	Idght Flux (lumens)	(See Note 4)	Min.	Max.	Tested	Note
a	*	0.02	Sensitivity (MA/lumen)	160	-	100%	1 2 3
ъ	x	Nil	Dark Current (µA)	•	0.1	10 0%	1,3
c	x + 10	0.02	There must be no uncontrolled breakdown	•	•	100%	1,2 3,40 5
đ	x + 10	Nil	Dark Current (µA)	•	0.2	100%	1 ₉ 3
	x + 20	N11	Dark Current (µA)	-	0•2	100≸	1,3,

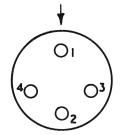
NOTES

- 1. x = working voltage as defined in Note *A*, Page 1.
- Light Flux is to illuminate a cathode area 16 mm high x 12 mm wide, the centre of which is 39 mm from the soleplate.
- 3. Test to be carried out with resistance of 100,000 ohms ± 5% connected in series with the anode circuit. All voltages in the test are measured across the cell and resistance in series.
- 4. Tests are to be carried out in the order given above and test 'd' is to follow immediately after observing test 'c'.

5. Jack Um 1.



DIRECTION OF INCIDENT LIGHT.



ALL DIMENSIONS ARE IN MILLIMETRES.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION D/CV248

Issue 7 dated 8-4-54

AMENDMENT No. 1

Page 1.	Under "RATING" add:- Max. Peak Anode Current	(uA) 4	Note
	Max. Mean Anode Current	(μΛ) 4 (μΛ) 1	С
	Under "NOTES" add:-		1

C. Where high stability is required a mean anode current of 0.1 A should not be exceeded.

Page 2	Under "TESTS" add:-	1
	Under "TESTS" add: - (a) 5 (c) 5	
	(c) 5	
	Under "NOTES" add:-	

 During tests (a) and (c) anode currents in excess of the maximum ratings may be taken for a period not exceeding 30 secs.

November 1960

ADMIRALTY SURFACE WEAPONS ESTABLISHMENT

N 46523

