ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2132 Issue 2.	SECURITY		
Dated 12.6.51. To be read in conjunction with K1004.	Specn. Unclassified	<u>Valve</u> Unclassified	

TYPE OF VALVE:-	LVE:- Vacuum Photo- Klectric Cell.			<u>MARKING</u>			
CATHODE:-	Caesium Antimeny.			See K1001/4.			
ANODE:-	Frame er	ype.	See 1	Netes 'A' and 'B'			
ENVELOPE:-	Glass.		belo)W.			
PROTOTYPE:-	90 AV •			BASE			
					B7G		
DAMING				See K1001/AIV/D9.			
RATING				·			
			Note	Pin	Electrode		
				1	Cathode		
Working Voltage	(V)	100	A	2	Cathode		
MOTATINE ACTIONS	(')	1.00		1	Anode Anode		
Max. Voltage	(V)	110	В	4 5 6	Anode		
		1			Cathode		
Max. Cathode Curr	rent (MA)	5		7	Cathode		
	44227	´			DIMENSIONS		
Min. Sensitivity	lumen)	30	_	See page 3.			
	·			PACKAGING			
				Sec K1005.			

NOTES

- A. The working voltage is to be clearly and permanently marked on each photecell.
- B. The max. voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated. It is NOT to be marked on the cell.

CV2132/2/i.

TESTS

To be performed in addition to those applicable in K1004.

I		Test Conditions			Limits		No.	
		Va (Volts)	Light Flux (lumens)	Test (See Test)	Min.	Max.	Tested	Note
	a	, 20	0• 04	Sensitivity (µA/lumen)	27.5	400	100%	1,2
	b	100	0.04	Sensitivity (µA/lumen)	30.0	æ	100%	1,2
	C:	100	0	Dark Current (µA)	1	0.05	100%	2
	đ	110	O• O4	There must be no uncontrolled breakdown.	-	-	1 00%	1,2, 3,4
I	0	110	0	Dark Current (µA)	534	•1	100%	2,3
	f	120	0	Dark Current (MA)	-	-1	100%	2

NOTES

- 1. Light Flux is to illuminate a Cathode Area through a circular aperture of 1.0 cm diameter, the centre of which is to be 23 mm above the seat of the cell.
- 2. Test is to be carried out with a resistance of 100,000 ohms + 5% connected in series with the anode circuit. All voltages in the test are measured across the cell and the resistance in Series.
- 3. Tests are to be carried out in the order given above, and test 'e' to follow immediately after observing test 'd'.
- 4. Observation of photocell for breakdown should be of at least 10 secs. duration. Should the photocell exhibit any tendency to breakdown during this period, a further test of 2 minutes duration is to be made.

CW2132/2/ii.

CV.2132/2/iil