## ELECTRONIC VALVE SPECIFICATIONS

## SPECIFICATION AD/CV248

## Issue 7 dated 8-4-54

## AMENDMENT No. 1

Page 1.	Under "RATING" add:-		Note
	Max. Peak Anode Current Max. Mean Anode Current	$\begin{pmatrix} \mu \Lambda \\ \mu \Lambda \end{pmatrix}$ 4 1	c
	Under "NOTES" add	1	ž

C. Where high stability is required a mean anode current of 0.1 $\mu$ Å should not be exceeded.

Page 2	Unde	r "	TES	TESTS" add:-  5  NOTES" add:-				Note	-		
	(a)	-		-	_	-	-	-	-	5	THE PROPERTY AND PERSONS ASSESSED.
	(c)			 mall		<b>-</b>	_		_	2	Acres are Physical State of
	Unde	r "	NOT	ES"	ad	a : -					ì

5. 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

# VALVE ELECTRONIC CV248

#### ATMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV248/Issue 7.	SECT		
Dated: 8. 4. 54.	Specification Unclassified	<u>Valve</u> Unclassified	
To be read in conjunction with K1001.		010100001100	

#### -->Indicates a change

TYPE OF VALVE: -	Gas filled Phot Cell. Caesium on silv approved alter	rear oar		MARKING  See K1001/4, also Notes 'A' and 'B' below.			
ANODE: -	Frame or Rod ty	pe.		BASE BA			
PROTOTYPE: -	GS16.			See K1001/AIV/D5.1.			
	RATING			Pin	Electrode		
Working Veltage	( <b>v</b> )	140- 160 Wee.	No te	1 2 3 4	Anode No connection No connection Cathode		
Min, Sensitivity		<b>velts</b> + 10			DIMENSIONS AND CONNECTIONS See Page 3.		

#### NOTES

- L. 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

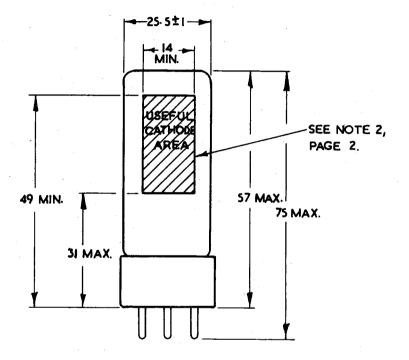
### To be performed in addition to those applicable in K1001

	Test Conditions		Test	Idmits		No.	
	Va (volts)	Light Flux (lumens)	(See Note 4)	Min.	Max.	Tested	No <b>te</b>
ac.	*	0.02	Sensitivity (auA/lumen)	160	-	100%	1 2 3
ъ	x	N <b>1.</b> l	Dark Current (41A)		0.1	100%	1,3
o	x + 10	0.02	There must be no uncontrolled breakdown	•	•	100%	1,2 3,4.
đ	x + 10	N1.I	Dark Current (piA)	•	0.2	100%	1 <sub>9</sub> 3 4 <sub>9</sub>
	x + 20	N11	Dark Current (μΑ)	•	0•2	100%	1,3.

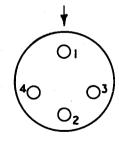
#### NOTES

- 1. x = working voltage as defined in Note \*A\*, Page 1.
- Ident 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'.

CV248



DIRECTION OF INCIDENT LIGHT.



ALL DIMENSIONS ARE IN MILLIMETRES.