## VALVE ELECTRONIC

# CV337

#### MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

Specification MOSA/CV337	SECURITY			
Issue 5 Dated 9.7.57. To be read in conjunction with K.1001	Specification	<u>Valve</u>		
	UNCLASSIFIED	UNCLASSIFIED		

P			Indic	ates a change				
TYPE OF VALVE - Electron Multiplier Photocell ENVELOPE - Glass			MARKING See K.1001/4.1.					
PROTOTYPE - VX.6046				BASE				
RAT INGS				Small Shell Submagnal 11 pin				
	Note			CONNECTIONS				
Max. H.T. Supply	(▼)	1100		Pin	Electrode			
Max. Voltage between Anode and Dynode No. 9	(∀)	250		1 2 3 4 5 6 7 8 9	Dynode No. 1 Dynode No. 2 Dynode No. 3			
Max. Anode Current	(mA)	2.5		5	Dynode No. 4 Dynode No. 5			
Max. Ambient Temperature	(°C)	<b>7</b> 0		7	Dynode No. 6 Dynode No. 7			
Max. Anode Dissipation	(W)	0.5		9 10 11	Dynode No. 8 Dynode No. 9 Anode Cathode			
				Saa	DIMENSIONS Drawing Page 3.			

#### NOTES

- A. An anode load resistance of at least 10,000 ohms is recommended for a protective resistance.
- B. The spectral response is blue sensitive.

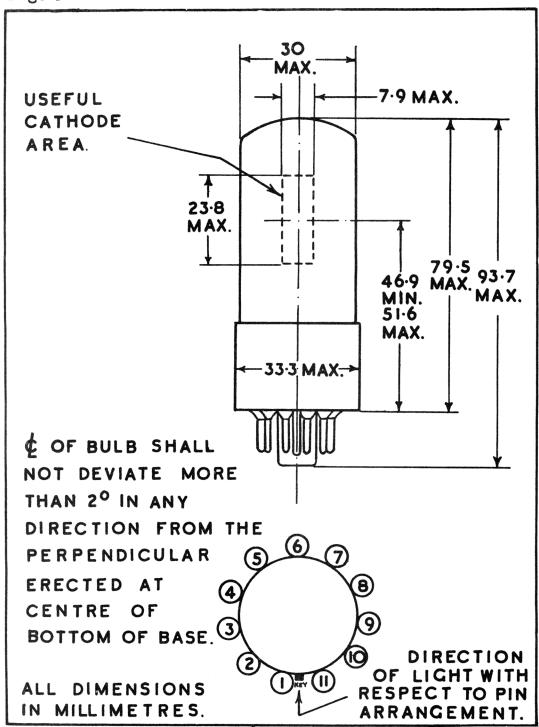
CV337

To be performed in addition to those applicable in K.1001.

	Test Conditions Test		Limits		No.	No.		
Test Conditions		Test	Min.	Max.	Tested	Note		
a	a		CAPACITANCES (pF)					
			1. Anode to Dynode 9	2.0	6.0	6		
				2. Anode to Rest	<b>3.</b> 5	9.5	per week	
	Vht (kV)	Va-dy 9 (V)	Light Flux Lumens					
Ъ	100V beto cathode o other pin together	and all	0.1	Sensitivity (μΑ/Lumen)	7•5	-	100%	2
С	1.0	100	0	Dark Currents				
	through 10K ohms			1. Ic (μA)	-	5.0	100%	
				2. Ia (μA)	-	0.25	100%	
đ	1.0 through 10K ohms	100	2.5 x 10 <sup>-5</sup>	<b>ΙΑ</b> (μΑ)	112.5	-	100%	2,3
e	1.0 through 10K ohms	100	2.5 x 10 <sup>-5</sup>	ц	75,000	-	100%	4

#### NOTES

- The voltage steps from cathode to dynode No. 1 and from each dynode to the next in sequence shall be equal.
- The light flux shall be incident on an aperture 20 mm x 5 mm centred on the centre of the cathode.
- 3. The tube position shall be adjusted to give maximum sensitivity.
- 4. 
  μ in this test is the ratio of overall sensitivity (deduced from clause d) to primary sensitivity (measured in clause b).



## ELECTRONIC VALVE SPECIFICATIONS

# SPECIFICATION CV337 ISSUE 5 DATED 9.7.57 AMENDMENT NO. 1

Page 2 Amend the specified test clauses as follows:-

Test clause "b" Amend the Minimum Limit to read 8.2. uA/Lumen in place of 7.5 uA/Lumen.

Test clauses 'd' and 'e' In column headed Light. Flux, Lumens Amend  $2.5 \times 10^{-5}$  to read  $1.0 \times 10^{-5}$ 

Test clause 'd' Amend the Minimum Limit of 112.5 to read 49.5 µA

April, 1961. The Director,
Royal Aircraft Establishment

N.56730/D