# 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. µA/Lumen in place of 7.5 µA/Lumen.

Test clauses 'd' and 'e' In column headed Light. Flux, Lumens Amend 2.5 x 10<sup>-5</sup> to read 1.0 x 10<sup>-5</sup>

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

April, 1961.

N.56730/D

The Director,

Royal Aircraft Establishment

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

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

;			India	Loates a change					
TYPE OF VALVE - Electron Multiplier Photocell ENVELOPE - Glass			<u>MARKING</u> See K.1001/4.1.						
PROTOTYPE - VX.6046				BASE					
RATINGS				Small Shell Submagnal 11 pin					
	Note			CONNECTIONS					
Max. H.T. Supply	(▼)	1100		Pin	Electrode				
Max. Voltage between Anode and Dynode No. 9  Max. Anode Current  Max. Ambient Temperature  Max. Anode Dissipation	(W) (PC) (WA)	250 2.5 70 0.5		1 2 3 4 5 6 7 8 9 10 11	Dynode No. 1 Dynode No. 2 Dynode No. 3 Dynode No. 4 Dynode No. 5 Dynode No. 6 Dynode No. 7 Dynode No. 8 Dynode No. 9 Anode Cathode				
			2	See 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.

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

Test Conditions		Test	Limits		No.			
		rest	Min.	Max.	Tested	Note		
a	a.		CAPACITANCES (pF)					
			1. Anode to Dynode 9	2.0	6.0	6		
			2. Anode to Rest	3.5	9.5	per week		
	Vht (kV)	Va-dy 9 (V)	Light Flux Lumens					
Ъ	100V between cathode and all 0.1 other pins tied together.		Sensitivity (µA/Lamen)	7.5	-	100%	2	
C	1.0 through 10K ohms	100	0	Dark Currents  1. Ic (μΑ)  2. Ia (μΑ)	-	5.0 0.25	100%	
đ	1.0 through 10K ohms	100	2.5 x 10 <sup>-5</sup>	Ia (μA)	112.5	<b>-</b>	100%	2,3
æ	1.0 through 10K ohms	100	2.5 x 10 <sup>-5</sup>	<u>.</u>	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.
- μ in this test is the ratio of overall sensitivity (deduced from clause d) to primary sensitivity (measured in clause b).

