

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.467

ISSUE 7 DATED 16.10.54

AMENDMENT No.1

Page 1

Dimensions Table

Amend the table to read  
as follows:

Dimensions	Min.	Max.
A m.m.	-	38.00
B m.m.	9.3	10.16

T.V.C. Office for  
Director,  
Royal Aircraft Establishment.

April, 1957

N.87688

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AMENDMENT NO.2

Page 2

Test "g". Ia

Under "Va" column delete 100V and substitute "See Note 2".

Amend Note 2 to read:

"With an anode supply voltage of 100V applied through  
a 1M $\Omega$  protective resistance to the anode."

6th August, 1957  
N.5053.

Director  
Royal Aircraft Establishment

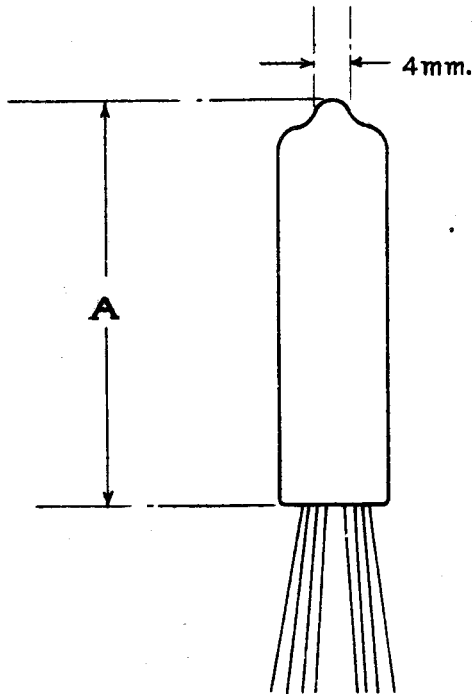
Specification MOSA/CV467 Issue 7 - Dated 16.10.54 To be read in conjunction with B.S.1409 and K1001		<u>SECURITY</u>	
		<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED
-----> Indicates a change			
TYPE OF VALVE - Pentode with suppressor diode CATHODE - Indirectly heated ENVELOPE - Glass, unmetallised PROTOTYPE - VX.8030		<u>MARKING</u> See K.1001/4 CV number, T.A. letters, Factory and Date code, only required.	
		<u>BASE</u> B8D	
<u>RATING</u>		<u>CONNECTIONS</u>	
		Pin	Electrode
Heater Voltage (V)	6.3		g1
Heater Current (mA)	200		g3
Max. Anode Voltage Ia = 0 (V)	350	A	h
Max. Screen Voltage Ig2 = 0 (V)	350	A	k
Max. Anode Dissipation (W)	0.75		a
Max. Screen Dissipation (W)	0.4		h
Max. Operating Anode Voltage (V)	190	A	g2
Max. Operating Screen Voltage (V)	190	A	g3
Mutual Conductance (mA/V)	2.5	B	
Anode Impedance (approx.) (MΩ)	0.1	B	
Anode Current (mA)	3.0	B	
Screen Current (mA)	2.45	B	
Max. Cathode Current (mA)	10		
Inner μ	34		
		<u>DIMENSIONS</u> See Drawing on Page 3	
<u>CAPACITANCES</u> (pF)		Dimensions	Min. Max.
C in (nom.) shielded	4.5	A m.m.	- 38
C out (nom.) shielded	4.7	B m.m.	- 10.16
Ca, g1 (Max.) shielded	0.025		
<u>NOTES</u>			
A. Absolute maximum values.			
B. All measured at Va = Vg2 = 100; Vg1 = -2.			

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

Test Conditions							Test	Limits		No. Tested	Note
								Min.	Max.		
See K.1001/A III											
	Links to H.P.	Links to L.P.	Links to E.								
a	1	2,3,4,6, 7,8,Sh.	5	C in	4.0	5.0	6	1			
	5	2,3,4,6, 7,8,Sh.	1	C out	4.1	5.3	per				
	1	5	2,3,4,6, 7,8,Sh.	Ca, g <sup>1</sup>	-	0.025	week				
	Vh	Va	Vg <sup>1</sup>	Vg <sup>3</sup>	Vg <sup>2</sup>	Ia					
b	6.3	-	-	-	-	-	Ih (mA)	180	220	100% or S	
c	6.3	100	Ad-just	0	100	3.0 mA	Vg <sup>1</sup> (V)	-1.4	-2.6	100%	
d	6.3	100	-	0	100	3.0 mA	gm (mA/V)	2.0	3.0	100%	
e	6.3	100	-	0	100	3.0 mA	Ig <sup>2</sup> (mA)	1.6	2.9	100%	
f	6.3	100	-	0	100	3.0 mA	Reverse Ig (μA)	-	0.5	100%	
g	6.3	100	-8	0	100		Ia (μA)	-	50	100%	2
h	6.3	100	-	Ad-just	100	30 μA	Vg <sup>3</sup> (V)	-5.0	-14.0	20 per week	3
j	6.3	100	See Note 4	-	100	3.0 mA	Inner μ	30	38	20 per week	4
k	6.3	100	-20	10	100		Ig <sup>3</sup> (mA)	1.0	-	100% or S	

## NOTES

1. Capacities measured with close fitting shield (Sh.)  
Connections refer to valve pins.  
All should be measured at R.F.
2. 1 Megohm protective resistance in meter circuit.
3. Vg<sup>1</sup> set to value obtained from clause 'C' before adjusting Vg<sup>3</sup>.
4. Peak Grid swing  $\pm$  0.5V. Vg<sup>2</sup> adjusted to maintain constant Ia.



**BULB STRAIGHTNESS TEST**

The finished valve must pass through a cylindrical gauge of length at least equal to that of the bulb. I.D. of cylinder = 0.4 inch.

THE LEADS SHALL BE FLEXIBLE 25-27 S.W.G. TINNED WIRE AT LEAST 38 mm. IN LENGTH

