

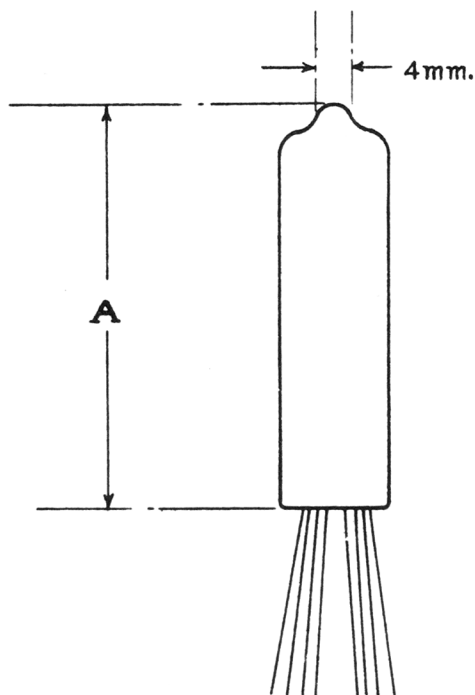
Specification MOSA/CV467 Issue 7 - Dated 16.10.54 To be read in conjunction with B.S.1409 and K1001				<u>SECURITY</u> <u>Specification</u> UNCLASSIFIED		<u>Valve</u> UNCLASSIFIED	
-----> Indicates a change							
TYPE OF VALVE - Pentode with suppressor diode CATHODE - Indirectly heated ENVELOPE - Glass, 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>			
				Note		Pin Electrode	
Heater Voltage (V) 6.3						1 g1	
Heater Current (mA) 200						2 g3	
Max. Anode Voltage Ia = 0 (V) 350				A		3 h	
Max. Screen Voltage Ig2 = 0 (V) 350				A		4 k	
Max. Anode Dissipation (W) 0.75						5 a	
Max. Screen Dissipation (W) 0.4						6 h	
Max. Operating Anode Voltage (V) 190				A		7 g2	
Max. Operating Screen Voltage (V) 190				A		8 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. - 38.00	
C out (nom.) shielded 4.7						B m.m. 9.5 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.		
a	See K.1001/A III						C in	4.0	5.0	6	1
	Links to H.P.	Links to L.P.		Links to E.							
	1	2,3,4,6, 7,8,Sh.		5			C out	4.1	5.3	per	
	5	2,3,4,6, 7,8,Sh.		1							
	1	5		2,3,4,6, 7,8,Sh.			Ca,g1	-	0.025	week	
b	Vh	Va	Vg1	Vg3	Vg2	Ia	Th (mA)	180	220	100% or S	
	6.3	-	-	-	-	-					
c	6.3	100	Ad- just	0	100	3.0 mA	Vg1 (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	Ig2 (mA)	1.6	2.9	100%	
f	6.3	100	-	0	100	3.0 mA	Reverse Ig (μA)	-	0.5	100%	
g	6.3	See Note 2	-8	0	100		Ia (μA)	-	50	100%	2
h	6.3	100	-	Ad- just	100	30 μA	Vg3 (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		Ig3 (mA)	1.0	-	100% or S	

NOTES

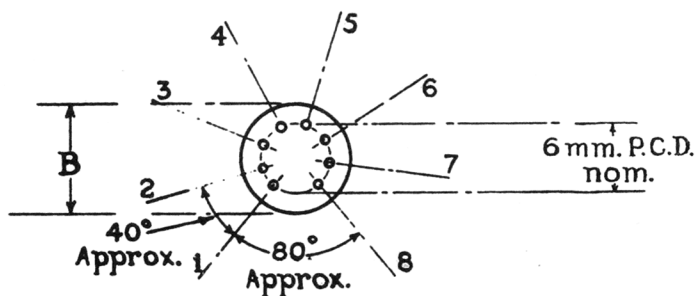
- Capacities measured with close fitting shield (Sh.)
Connections refer to valve pins.
All should be measured at R.F.
- With an anode supply voltage of 100V applied through
a 1 Megohm protective resistance ~~in meter circuit.~~ to the anode
- Vg1 set to value obtained from clause 'C' before adjusting Vg3.
- Peak Grid swing $\pm$ 0.5V. Vg2 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



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

✓ AA

ELECTRONIC VALVE SPECIFICATIONS

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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 Ω protective resistance to the anode."

6th August, 1957
N.5053.

Director
Royal Aircraft Establishment