

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.466

ISSUE 5 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.87690/R

ELECTRONIC VALVE SPECIFICATIONS

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AMENDMENT NO. 2

Page 2

Test "g". Ia

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

Amend Note 2 to read:

With an anode supply voltage of 100V applied through a 1 M Ω protective resistance to the anode.

Director,
Royal Aircraft Establishment.

6th August, 1957

N.5055/R

Specification MOSA/CV466 Issue 5 - 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

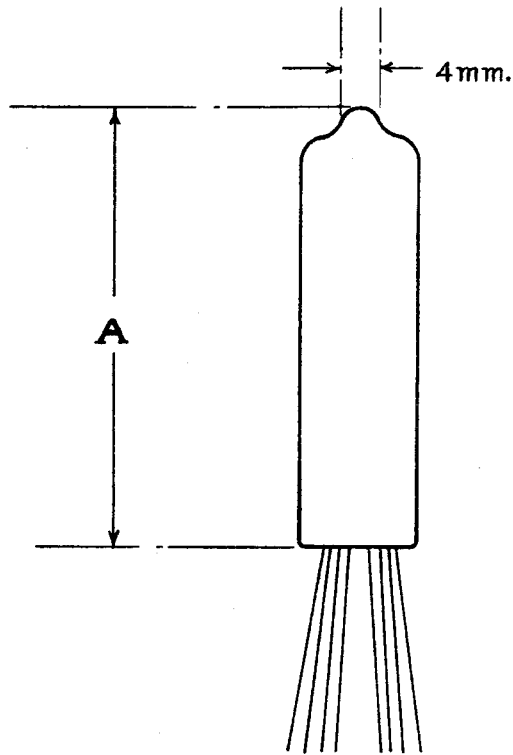
TYPE OF VALVE - H.F. Pentode, Sharp cut off CATHODE - Indirectly heated ENVELOPE - Unmetallised Glass PROTOTYPE - VX8046			<u>MARKING</u>		
			See K1001/4 CV number, T.A. letters, Factory and Date code, only required.		
<u>RATING</u>			<u>BASE</u>		
			B8D.		
			Note		
			<u>CONNECTIONS</u>		
			Pin	Electrode	
Heater Voltage (V)			6.3		
Heater Current (mA)			200		
Max. Anode Voltage (Ia = 0) (V)			350	A	
Max. Screen Voltage (Ig2 = 0) (V)			350	A	
Max. Anode Dissipation (W)			1.5		
Max. Screen Dissipation (W)			1.0		
Max. 'Total' Dissipation (W)			2.0		
Max. Operating Anode Voltage (V)			190	A	3
Max. Operating Screen Voltage (V)			190	A	4
Mutual Conductance (mA/V)			5.5	B	5
Anode Impedance (MΩ)			0.25	B	6
Anode Current (mA)			7.5	B	7
Screen Current (mA)			2.5	B	8
Max. Cathode Current (mA)			14		
Inner μ			28	<u>DIMENSIONS</u>	
			See Drawing on Page 3		
<u>CAPACITANCES (pF)</u>			Dimension	Min.	Max.
C in (Nom.)	Shielded	5.0	A m.m.	-	38
C out (Nom.)	Shielded	4.5	B m.m.	-	10.16
Ca, g1 (Max.)	Shielded	0.15			
<u>NOTES</u>					
A. Absolute maximum values.					
B. All measured at Va = Vg2 = 100; Vg1 = - 2.0.					

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							Capacitance (pF)	C in	4.0	6.0	6	1		
Links to H.P.	Links to L.P.		Links to E		C out	3.5							5.5	per
1	2,3,5,6,7, Sh.		4,8		C _{a,g1}	0.15							week	
a	4,8	2,3,5,6,7, Sh.		1										
	1	4,8		2,3,5,6,7, Sh.										
b	V _h	V _a	V _{g3}	V _{g2}	I _a	V _{g1}	I _h (mA)	180	220	100% or S				
	6.3	-	-	-	-	-								
c	6.3	100	0	100	7.5 mA	Adjust	V _{g1} (V)	-1.4	-2.6	100%				
d	6.3	100	0	100	7.5 mA	-	g _m (mA/V)	4.5	6.5	100%				
e	6.3	100	0	100	7.5 mA	-	I _{g2} (mA)	2.1	2.9	100%				
f	6.3	100	0	100	7.5 mA	-	Reverse I _g (μA)	0	0.5	100%				
g	6.3	100	0	100	-	-10V	I _a (μA)	-	20	100%	2			
h	6.3	100	Ad-just	100	100 μA	-	g ₃ cut off (V)	30	60	20	3			
j	6.3	100	0	100	7.5 mA	-	inner μ	23	34	per week				
Vibration and Microphony								To be determined						

NOTES

1. Capacities measured with shield round valve. Connections refer to valve pins. All should be measured at RF.
2. 1 Megohm protective resistance in meter circuit.
3. Peak grid swing \pm 0.5V. V_{g2} adjusted to maintain constant I_a



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

