

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

Specification MOSA/CV.468 Issue 6 Dated 16.10.54 To be read in conjunction with B.S.1409 and K.1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————→ Indicates a change

TYPE OF VALVE - Triode Oscillator				<u>MARKING</u> See K.1001/4 CV number, T.A. letters, Factory and Date code, only required.		
CATHODE - Indirectly Heated				<u>BASE</u> B8D		
ENVELOPE - Glass, unmetallised				<u>CONNECTIONS</u>		
<u>RATING</u>						
				Note	Pin	Electrode
Heater Voltage	(V)	6.3				
Heater Current	(mA)	150				
Max. Anode Voltage ($I_a = 0$)	(V)	350	A		1	g1
Max. Anode Dissipation	(W)	3.0			2	a
Max. Operating Anode Voltage	(V)	190	A		3	h
Mutual Conductance	(mA/V)	4.2	B		4	a
Anode Impedance	(Ω)	3600	B		5	N.C.
Anode Current	(mA)	13	B		6	h
Max. Cathode Current	(mA)	20			7	k
Amplification Factor		20	B		8	a
<u>Capacitances (pF) nom.</u>				<u>DIMENSIONS</u> See Drawing on Page 3		
Shielded		Unshielded				
C in	1.8	1.7	} Nom.	Dimensions	Min.	Max.
C out	2.8	0.6		A m.m.	-	38.00
Cag1	2.1	2.1		B m.m.	9.3	10.16

NOTES

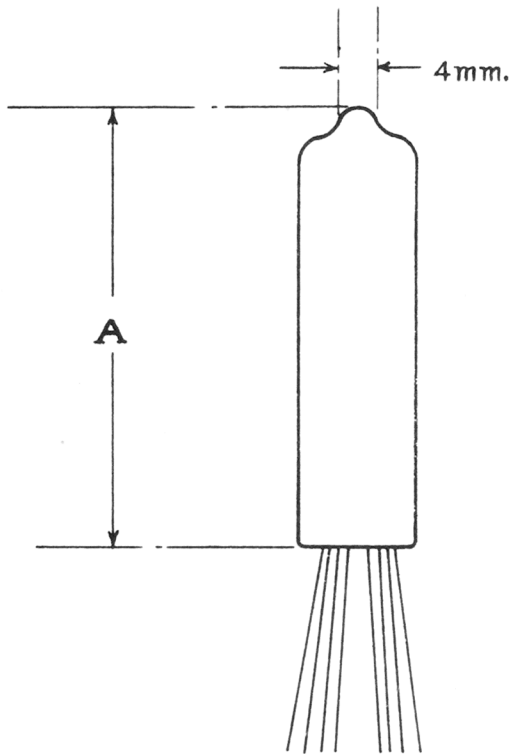
- A. Absolute maximum values.
- B. Measured at $V_a = 100V$; $V_{g1} = -2V$.

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

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K.1001/A III				<u>CAPACITANCES</u> (pF)			6 per week	1
	Links to H.P.	Links to L.P.	Links to E.						
	1	3,5,6,7 Sh	2,4,8	C in	1.4	2.2			
	2,4,8	3,5,6,7 Sh	1	C out	2.2	3.4			
	1	2,4,8	3,5,6,7 Sh	Cag1	1.6	2.6			
b	Vh	Va	Vg1	Ia	Ih (mA)	135	165	100% or S	
	6.3	-	-	-					
c	6.3	100	Adjust	8 mA	Vg1 (V)	2.1	3.9	100%	
d	6.3	100	-	8 mA	gm (mA/V)	3.6	4.8	100%	
e	6.3	100	-	8 mA	Reverse Ig (μA)	-	0.7	100%	
f	6.3	See Note 2 100	-10	-	Ia (μA)	-	50	100%	2
g	6.3	100	See Note 3	8 mA	μ	17	23	20 per week	3

NOTES

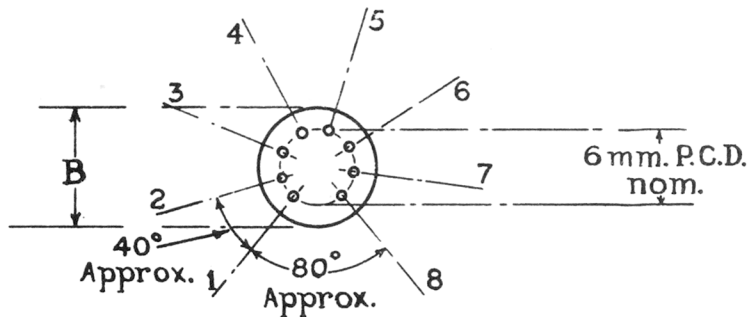
- Capacities measured with close fitting shield. Connections refer to valve pins. All should be measured at R.F.
- With an anode supply voltage of 100V applied through a 1 Megohm protective resistance in meter circuit to the anode.
- Peak Grid swing $\pm 0.5V$. Va adjusted to maintain constant Ia.



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



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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

JAS

ELECTRONIC VALVE SPECIFICATIONS

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AMENDMENT NO. 2

Page 2

Test "f". 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 1 M Ω protective resistance to the anode.

Director,
Royal Aircraft Establishment.

6th August, 1957

N.5055/R

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