

Specification MAP/CVX471 Issue 3. Dated 2.10.1951 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

<u>TYPE OF VALVE</u> - Audio Beam Power Amplifier <u>CATHODE</u> - Indirectly Heated <u>ENVELOPE</u> - Glass, Unmetallized <u>PROTOTYPE</u> - VI8054		<u>MARKING</u>	
		See K.1001/4 except that the title shall be "CVX471" and the Type Approval letter omitted.	
<u>RATING</u>		Note	<u>BASE</u> B 8 D
Heater Voltage	(V) 6.3		<u>CONNECTIONS</u>
Heater Current	(A) 0.45		Pin
Max. Anode Voltage (Ia = 0)	(V) 350	A	Electrode
Max. Screen Voltage (Ig2 = 0)	(V) 350	A	1
Max. Operating Anode Voltage	(V) 175	B	2
Max. Operating Screen Voltage	(V) 175	B	3
Max. Anode Dissipation	(W) 3.5		4
Max. Screen Dissipation	(W) 1.0		5
Mutual Conductance	mA/V 5.0	C	6
Anode Impedance	KΩ 15	C	7
Anode Current	mA 31	C	8
Screen Current	mA 2.2	C	
Max. Cathode Current	mA 45		
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>
Qag (max.) Shielded	0.15		See Drawing on Page 3
Qae (max.) Shielded	7.0		Dimensions
Qge (max.) Shielded	8.0		Min.
			Max.
			A mm.
			B mm.
<u>NOTES</u>			
A. Absolute maximum values.			
B. Design centre values.			
C. All measured at Va = Vg2 = 100; Vg1 = -9.			

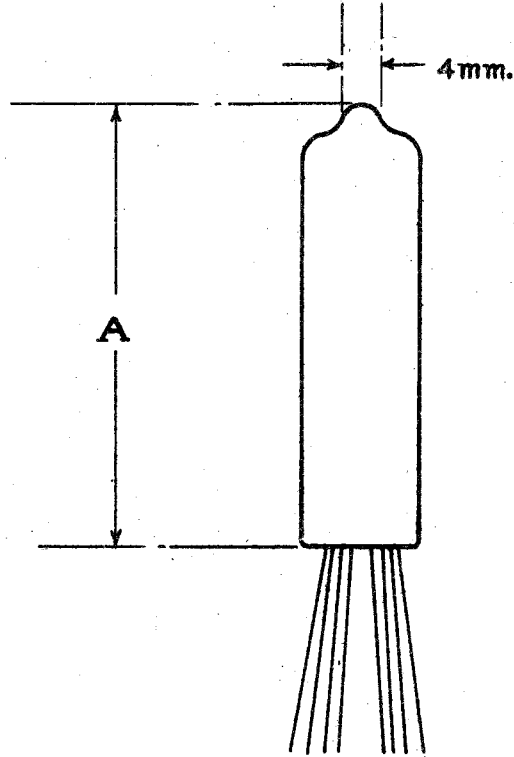
TESTS

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No. Tested	Note	
								Min.	Max.			
See K1001/AIII							<u>CAPACITANCE (pF)</u>			6	1	
a	Links to H.P.	Links to L.P.	Links to E.		Cag							0.15
	5	1	2,3,4,6,7 8, Sh.		Cae	6.0						8.0
	5	2,3,4,6,7 8, Sh.	1		Cge	7.0						9.0
1	2,3,4,6,7 8, Sh.	5					weak					
b	Vh	Va	Vg2	Vg3	Vg1	Ia	Ih (mA)	405	495	100% or S		
	6.3	-	-	-	-	-						
c	6.3	100	100	0	-	31 mA	Vg1 (V)	-6.0	-12.0	100%		
d	6.3	100	100	0	-	31 mA	gm (mA/V)	4.0	6.0	100%		
e	6.3	100	100	0	-	31 mA	Ig2 (mA)		3.5	100%		
f	6.3	100	100	0	-	31 mA	Reverse Ig ( $\mu$ A)		1.5	100%		

NOTES

- Capacities measured with close fitting shield. Connections refer to valve pins. Cag should be measured at R.F.



**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 COPPER WIRE AT LEAST 32 mm. IN LENGTH

