

Specification MOS/CV2102/Issue 3 Dated:- 9.8.51. To be read in conjunction with K1001		<u>SECURITY</u>	
		<u>Specification</u> Restricted	<u>Valve</u> Unclassified
indicates a change			
<u>TYPE OF VALVE:-</u> Sub-miniature output pentode		<u>MARKING</u> CV2102 Date Code & Factory Identifi- cation Code.	
<u>CATHODE:-</u> Directly heated		<u>BASE</u> B8D	
<u>ENVELOPE:-</u> Glass unmetallised			
<u>PROTOTYPE:-</u> VX8018			
<u>RATING</u>		PIN	ELECTRODE
Filament Voltage (V)	1.25	1	I.C.
Filament Current (mA)	25.0	2	G1
Max. Anode Voltage (V)	100	3	N.C.
Max. Screen Voltage (V)	100	4	-F(G3)
Mutual Conductance (mA/V)	0.85	5	+F
Anode Impedance (M.ohms)	0.6	6	N.C.
Optimum Anode Load (M.ohms)	0.06	7	A
Nominal Power Output (mW)	50	8	G2
		<u>DIMENSIONS</u>	
		See drawing on page 3	
		Dimension	Min. Max.
		A. mm.	41.2
		B. mm.	10.16

NOTES

A. Measured at $V_a = V_{g2} = 90V$, $V_{g1} = -2.5V$.

Sharp bends in valve leads must not be made closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.

TESTS

To be performed in addition to those applicable in K1001

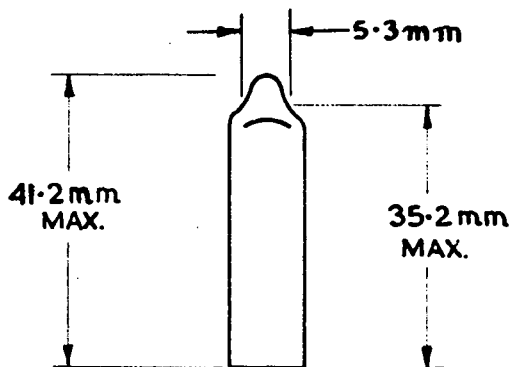
	Test Conditions					Test	Limits		No. Tested
	Vf	Va	Vg2	Vg1	Vht		Min.	Max.	
a	1.25	-	-	-	-	If (mA)	22	28	100%
b	1.25	90	90	-2.5	-	Ia (mA)	1.1	2.4	100%
c	1.25	90	90	-2.5		Ig2 (mA)		0.6	100%
d	1.25	90	90	-2.5		gm (mA/V)	0.65	1.05	100%
e	1.25	90	90	-2.5		Rev. Ig1 (μ A)		0.5	100%
f	1.25	90	90	-7		Ia tail (Note 2) (μ A)		50	100%
g	1.25				90	Microphony (Note 1)	See Note 1.		

NOTES

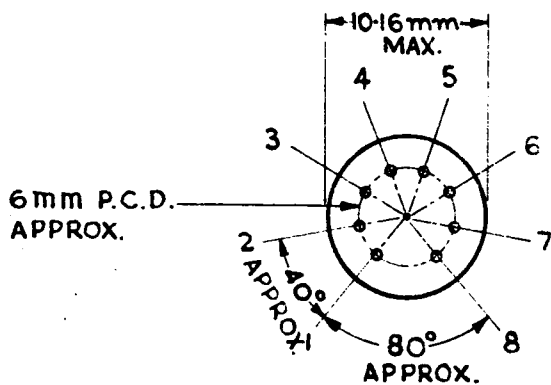
- Method of test as JAN 1A F-6e(3).
Conditions: R1 = 0.25 Megohm
Rg2 = 1.0 Megohm
Rg1 = 0.25 Megohm
Cg2 = 0.5 μ F

Amplifier sensitivity 300 mV. input for 50 mW.
(3.5V) output. Valves to be rejected if on
tapping output meter reads greater than 3.5V.

- 1 Megohm protective resistance in series.



BULBS 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.



VALVE BASE APPROX $\frac{2}{1}$

THE LEADS SHALL BE FLEXIBLE 25 - 27 S.W.G. TINNED COPPER-CLAD NICKEL IRON WIRE AT LEAST 32 mm IN LENGTH.