

MINISTRY OF SUPPLY (D.G.D./RAE)

VALVE ELECTRONIC

CV2202

Specification MAP/CV2202 Issue 2 Dated 16.1.52 To be read in conjunction with K1001 excluding Clause 5.2	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Electrometer Triode (Sub-Miniature)		<u>MARKING</u>  See K1001/4	
<u>CATHODE</u> - Directly Heated			
<u>ENVELOPE</u> - Glass, Unmetallised		<u>CONNECTIONS AND DIMENSIONS</u>  See Drawings on Page 3	
<u>PROTOTYPE</u> - XE2			
<u>RATING</u>		Note	
Filament Voltage	(V)	1.25	
Max. Filament Current	(mA)	15	
Max. Anode Voltage	(V)	15	
Mutual Conductance	( $\mu\text{A/V}$ )	80	A
Amplification Factor		2	A
<u>NOTES</u>			
<p>A. Measured at <math>V_a = 9V.</math>, <math>I_a = 100 \mu\text{A}.</math></p> <p>B. Anode Voltage must be applied after the Heater Voltage to avoid excessive drift.</p> <p>C. Do not finger the Glass Envelope within <math>1/2"</math> of leads, and, wires are not to be soldered nearer than <math>1/2"</math> to the base, to avoid contamination of the Glass.</p>			

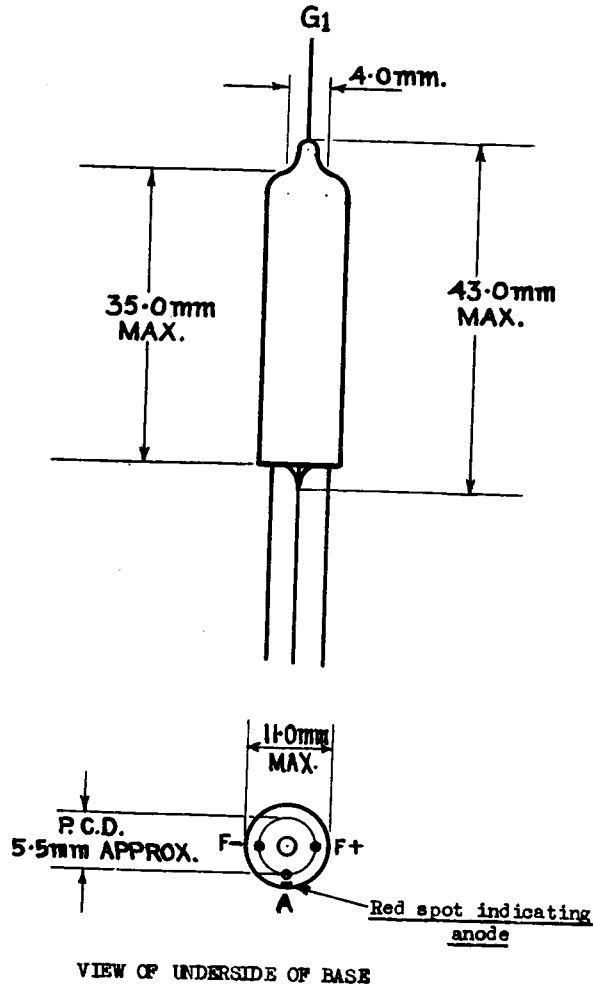
CV2202/2/1

To be performed in addition to those applicable in K1001

Test Conditions					Test	Limits		No. Tested	Note
Vf	Va	Vg	Ia (uA)	Min.		Max.			
a	1.25	-	-	-	If (mA)	-	16.5	100%	
b	1.25	9	Adjusted	100	Vg (V)	2.0	3.75	100%	
c	1.25	9	-	100	gm ( $\mu\text{A/V}$ )	70	-	100%	1
d	1.25	9	Adjusted	100	Ig ( $\mu\text{A}$ )	-	0.15	100%	2
e	1.25	9	Adjusted	20	Ig ( $\mu\text{A}$ )	-	0.06	100%	2
f	1.25	9	Adjusted	Variable	Vg Crossover (V)	-	1.6	5%	

NOTES

1. Measured by increasing the bias by 0.5 Volts negative from the value obtained in Clause (b).
2. Measurements should be made in an electrostatically shielded light-tight container.



All leads flexible 28-30 S.W.G. Copper clad nickel iron wire at least 30mm; in length and tinned to within 5 mm. of glass.