

Specification MAP/CV1020/Issue 8 Dated 6.1.49 To be read in conjunction with K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>RESTRICTED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	UNCLASSIFIED
SECURITY							
Specification	Valve						
RESTRICTED	UNCLASSIFIED						

→ Indicates a change

<u>TYPE OF VALVE:</u> Triode				<u>MARKING</u>		
<u>CATHODE:</u> Directly heated				See K1001/4		
<u>BULB:</u> Glass - unmetal- lised				<u>PACKING</u>		
<u>PROTOTYPE:</u> 220P				See K1005		
<u>RATING</u>				<u>BASE</u>		
				B4		
				<u>Pin</u>		
				<u>Electrode</u>		
Filament Voltage (V)	2.0			1	Anode	
Filament Current (A)	0.2			2	Control grid	
Max. Anode Voltage (V)	150			3	Filament	
Mutual Conductance (mA/V)	2.25	A		4	Filament	
Anode Impedance (Ω)	4000	A				
Amplification Factor	9	A				
Average Anode Current (μA)	11	B				
Optimum Load (Ω)	9000	B				
				<u>DIMENSIONS</u>		
				See K1001/A1/D1		
				<u>Dimension</u>		<u>Min.</u>
						<u>Max.</u>
				A	(mm)	96
				B	(mm)	40
						105
						43

NOTES

A:- At Va = 100, Vg = 0

B:- At Va = 150, Vg = -7.5

CV1020

TESTS

To be performed in addition to those applicable in K1001.

Clause	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
	Vf	Va	Vgl				
(a)	2.0	0	0	If (A)	0.18	0.22	100% or S
(b)	2.0	100	0	Ia (mA)	10	20	100%
(c)	2.0	100	0	gm (mA/V)	1.80	-	100%
	Peak grid swing + 0.5 volt max.						
(d)	2.0	150	-7.5	Reverse Ig (μ A)	-	1.0	100%
(e)	2.0	150	-7.5	Ia (mA)	7.3	14.7	100%