

Specification MAP/CV121/Issue 7 Dated 15.1.49 To be read in conjunction with K1001 ignoring clauses:- 5.2., 5.8.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	UNCLASSIFIED	UNCLASSIFIED
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
UNCLASSIFIED	UNCLASSIFIED						

→ Indicates a change

<u>TYPE OF VALVE:-</u> High Vacuum Half-Wave Rectifier			<u>MARKING</u> See K1001/4		
<u>CATHODE:-</u> Directly heated			<u>PACKING</u> See K1005		
<u>ENVELOPE:-</u> Glass - unmetallised					
<u>PROTOTYPE:-</u> V.1920					
<u>RATING</u>			<u>BASE</u> B.4.		
			<u>Note</u>		
Filament Voltage	(V)	4.0	Pin	Electrode	
Filament Current	(A)	2.1	1	Blank	
Max. Anode Voltage (R.M.S.)	(V)	5,800	2	Blank	
Max. D.C. Output Current	(mA)	75	3	Filament	
Max. Working Peak Inverse Voltage	(kV)	15.0	4	Filament	
Max. No load Peak Inverse Voltage	(kV)	16.5	T.C.	Anode	
Max. Peak Anode Current	(mA)	600	<u>PLUG TOP CAP</u>		
Max. Reservoir Condenser	(μF)	0.5	See K1001/AI/D5.1.		
Min. Limiting Resistance	(Ω)	2,500	<u>DIMENSIONS</u>		
H.T. Switching Delay Period (secs)		10	See K1001/AI/D1		
			Dimension	Min.	Max.
			A (mm)	180	195
			B (mm)	49	53
			Distance from sole of base to plane through dome or corresponding part of bulb where dia. is 44.5 mms. (mm)	138	167

To be performed in addition to those
applicable in K1001

	Test Conditions		Test	Limits		No. Tested
	Vf	Va		Min.	Max.	
a	4.0	0	If (A)	1.9	2.3	100%
b	4.0	115 Max.	Ia (mA)	130	-	100%
c	4.0	5.85 kV. R.M.S. at 50 c.p.s. applied through external resistance of 2,500 ohms including effective transformer impedance. Load resistance to give 75 mA with an average valve. Reservoir condenser = 0.5 μ F.	Test Conditions to be maintained for 10 secs., then H.T. voltage switched off and on 3 times. (5 secs. off, 5 secs. on)	There shall be no persistent sparking, blue glow or distortion of electrodes		100%