

Specification MAP/CV121/Issue 7 Dated 15.1.49 To be read in conjunction with K1001 ignoring clauses:- 5.2., 5.8.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> 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>BASE</u> B.4.	
<u>RATING</u>		Note	
Filament Voltage (V)	4.0	Pin	Electrode
Filament Current (A)	2.1		
Max. Anode Voltage (R.M.S.) (V)	5,800	1	Blank
Max. D.C. Output Current (mA)	75	2	Blank
Max. Working Peak Inverse Voltage (kV)	15.0	3	Filament
Max. No load Peak Inverse Voltage (kV)	16.5	4	Filament
Max. Peak Anode Current (mA)	600	T.C.	Anode
Max. Reservoir Condenser (μF)	0.5	<u>PLUG TOP CAP</u> See K1001/AI/D5.1.	
Min. Limiting Resistance (Ω)	2,500	<u>DIMENSIONS</u> See K1001/AI/D1	
H.T. Switching Delay Period (secs)	10	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 mm. (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 $\mu$ 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%