

Specification MAP/CV1120/Issue 7 Dated 8.1.46. To be read in conjunction with K1001 ignoring clauses:-5.2,5.8.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

→ Indicates a change

<u>TYPE OF VALVE</u> - High Vacuum Half-Wave Rectifier			<u>MARKING</u> See K1001/4			
<u>CATHODE</u> - Indirectly Heated						
<u>ENVELOPE</u> - Glass-unmetallised						
<u>RATING</u>		Note	<u>BASE</u> B ₄ .			
Heater Voltage (V)	2.0		Pin	Electrode		
Heater Current (A)	1.5		1	No connection		
Max. Applied R.M.S. Voltage (V)	5000		2	No connection		
Max. Working Peak Inverse Voltage (V)	14000		3	Heater and Cathode		
Max. No Load Peak Inverse Voltage (V)	15000		4	Heater		
Max. Mean D.C. Rectified Current (mA)	5.0		T.C.	Anode		
Max. Peak Anode Current (mA)	100		<u>PLUG TOP CAP</u> See K1001/AI/D5.1			
Max. Reservoir Condenser (μ F)	0.25		<u>DIMENSIONS</u> See K1001/AI/D1			
Min. Limiting Resistance Introduced Externally (Ω)	10000		<u>Dimensions</u>		Min. Max.	
<u>NOTE</u> A:- Ratings apply to condenser filter and 50 c.p.s. supply.			A	(mm)	120	134
			B	(mm)	-	51
			Base shell diameter not to exceed 33mm. for a height of 6.5mm. from the bottom of the base moulding.			

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested	Note
	Vh	Va		Min.	Max.		
a	2.0V. AC.or DC.	-	Ih (A)	-	2.2	100% or S	
b	2.0V. AC.or DC.	200V.D.C.Max.	Ia (mA)	50	-	100%	1
c	2.0V. A.C.	Input Voltage 5000V. R.M.S. Frequency 50cps. D.C.Load 5mA. (nom.) Reservoir Condenser 0.25 μ F Effective Resis- tance per anode introduced ex- ternally 10,000 Ω	<u>Load Test</u> Run 1 minute - Reject for softness or persistent flashover.			100%	

NOTE

1:- Applied only for sufficient time to obtain steady reading
(approx. 2 secs.)

DATA SHEET

CV1120
VALVE VU120.
 RAF Ref. No. 10E/121.

Issue	Date
a	18th Feb.43.

TYPE OF VALVE : High vacuum, half-wave rectifier.
CATHODE : Indirectly heated.
BULB : Clear.
COMMERCIAL PROTOTYPE : SU2150A

RATING

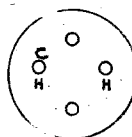
Filament volts	2.0 V.
Filament current	1.5 A approx.
Filament heating time	18 secs.
Max. peak inverse voltage	15,000 V.
Max. peak anode current	100 mA.
Max. RMS applied anode volts	5000 V.
Max. DC output anode current	5 mA.
Suggested smoothing capacitance	0.25 μ F.

DIMENSIONS

Max. overall length	134 mm.
Min. " "	120 mm.
Max. " diameter	51 mm.

BASE AND CONNECTIONS ETC.

Type of Base : British 4-pin.
 Type of top cap : Thimble type.



Bottom View



VU120/a/i.

VU120.

ANODE CURRENT AND ANODE VOLTAGE CURVES.

(Source : Cossor Catalogue sheet for SU2.50A)

