

Specification MAP/CV38/Issue 4 Dated 14.1.49 To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.3, 5.8.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Magnetron <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Copper <u>PROTOTYPE</u> - E.1198	<u>MARKING</u> See K1001/4.
	<u>PACKING</u> See K1005.
	<u>BASE</u> None

<u>RATING</u>			Note	<u>DIMENSIONS AND CONNECTIONS</u>
Heater Voltage (V)	6.0			See drawing on page 3.
Heater Current (A)	1.2			
Nom. Operating Frequency (Mc/s)	3297			
Max. Anode Dissipation (W)	150		A	
<u>TYPICAL OPERATING CONDITIONS</u>				
Peak Anode Voltage (approx.) (kV)	8.0		A	
Peak Anode Current (A)	7.0		A	
Field Strength (gauss)	1050			
Peak Power Output (kW)	7.0		A	

NOTE

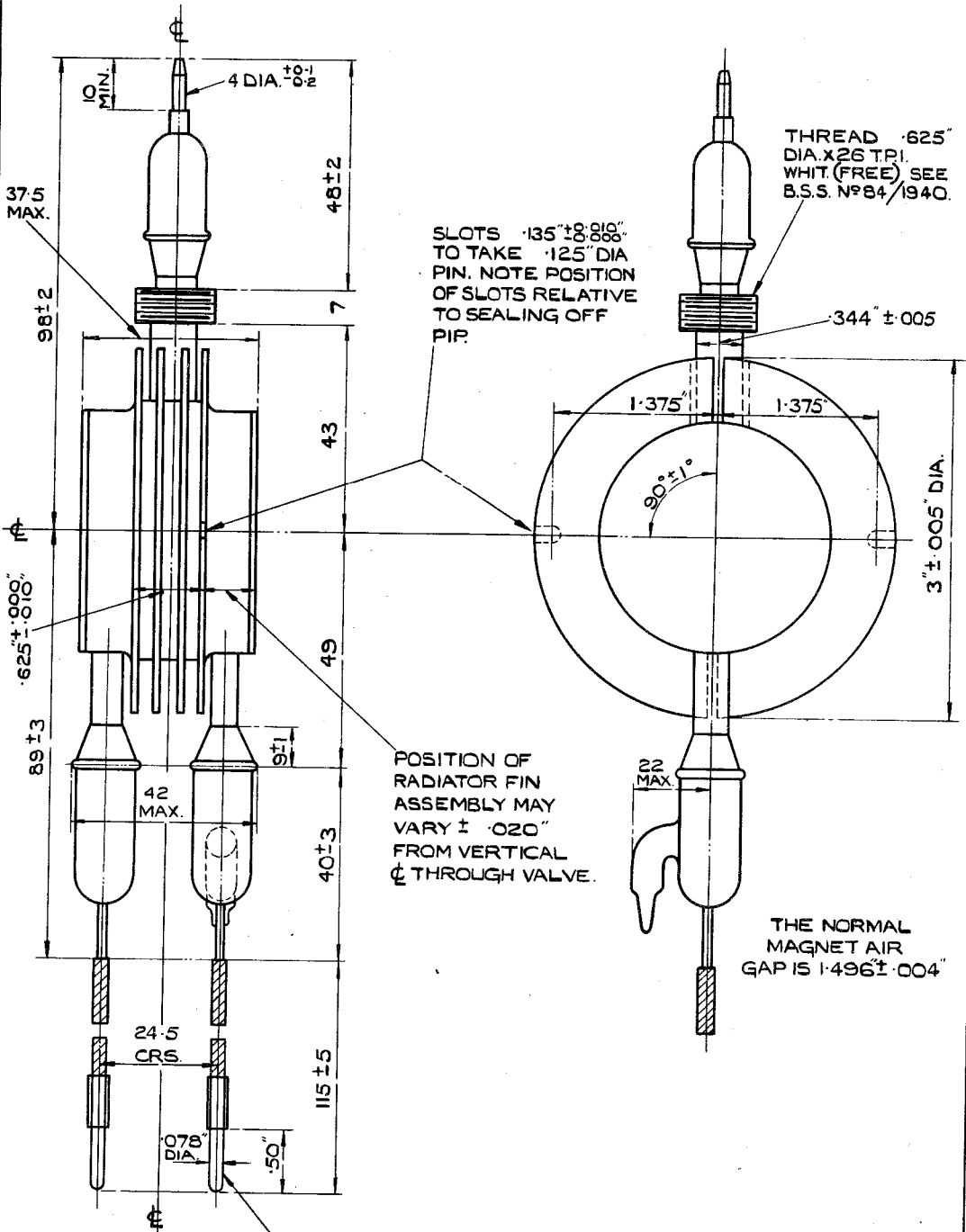
A - When operating under these conditions, the magnetron must be air-cooled such that the temperature of the block does not exceed 140°C.

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Test-ed.	Note
	Field Strength (Gauss)	Vh	Peak Ia(A)		Min.	Max.		
For the following tests the magnetron block shall be maintained at a temperature of $100^{\circ} \pm 20^{\circ}\text{C}$. by means of air cooling.								
a	0	6.0	-	Ih (A)	1.0	1.5	100%	
b	1050	6.0	7.0	Peak Va (kV)	7.0	10.0	100%	1
c	1050	6.0	7.0	Output Frequency (Mc/s)	3261	3333	100%	1
d	1050	6.0	Varied over range 5.0 to 9.0	The output frequency shall vary smoothly with input current, and shall show no discontinuity over this range of input current.			100%	1
e	1050	6.0	7.0	Peak output power (kW)	5.0	-	100%	1
f	The valve shall function satisfactorily in an equipment type T.3130.						100%	2

NOTES

- Test to be carried out under approved conditions
Modulation conditions shall be:-
Repetition frequency 500 per sec.
Pulse length 0.75 μ sec.
- If, in tests (b), (c), (d) and (e), the test conditions simulate operation in an equipment type T.3130, then test (f) need not be carried out.



CATHODE CONNECTED TO THIS LEAD.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.